

```
1 CCATGGGAGC GAACACTTCA AGAAAACCAC CAGTGTTTGA TGAAAATGAA
51 GATGTCAACT TTGACCACTT TGAAATTTTG CGAGCCATTG GGAAAGGCAG
101 TTTTGGGGAG GTCTGCATTG TACAGAAGAA TGATACCAAG AAGATGTGCG
151 CAATGAAGTA CATGAATAAA CAAAAGTGCG TGGAGCGCAA TGAAGTGAGA
201 AATGTCTTCA AGGAACTCCA GATCATGCAG GGTCTGGAGC ACCCTTTCCT
251 GGTTAATTTG TGGTATTCCT TCCAAGATGA GGAAGACATG TTCATGGTGG
301 TGGACCTCCT GCTGGGTGGA GACCTGCGTT ATCACCTGCA ACAGAACGTC
351 CACTTCAAGG AAGAAACAGT GAAGCTCTTC ATCTGTGAGC TGGTCATGGC
401 CCTGGACTAC CTGCAGAACC AGCGCATCAT TCACAGGGAT ATGAAGCCTG
451 ACAATATTTT ACTTGACGAA CATGGGCACG TGCACATCAC AGATTTCAAC
501 ATTGCTGCGA TGCTGCCAG GGAGACACAG ATTACCACCA TGGCTGGCAC
551 CAAGCCTTAC ATGGCACCTG AGATGTTTCA CTCCAGAAAA GGAGCAGGCT
601 ATTCCTTTGC TGTTGACTGG TGGTCCCTGG GAGTGACGGC ATATGAACTG
651 CTGAGAGGCC GGAGACCGTA TCATATTCGC TCCAGTACTT CCAGCAAGGA
701 AATTGTACAC ACGTTTGAGA CGACTGTTGT AACTTACCCT TCTGCCTGGT
751 CACAGGAAAT GGTGTCACCT CTAAAAAAGC TACTCGAACC TAATCCAGAC
801 CAACGATTTT CTCAGTTATC TGATGTCCAG AACTTCCCCT ATATGAATGA
851 TATAAACTGG GATGCAGTTT TTCAGAAGAG GCTCATTCCA GGTTCATTTC
901 CTAATAAAGG CAGGCTGAAT TGTGATCCTA CCTTTGAACT TGAGGAAATG
951 ATTTTGGAGT CCAAACCTCT ACATAAGAAA AAAAAGCGTC TGGCAAAGAA
1001 GGAGAAGGAT ATGAGGAAAT GCGATTCTTC TCAGACATGT CTTCTTCAAG
1051 AGCACCTTGA CTCTGTCCAG AAGGAGTTCA TAATTTTCAA CAGAGAAAAA
1101 GTAAACAGGG ACTTTAACAA AAGACAACCA AATCTAGCCT TGGAACAAAC
1151 CAAAGACCCA CAAGGTGAGG ATGGTCAGAA TAACAACCTG TAAAGGCCTC
1201 ATGTCTTCTT CTTGGGACAA TCTCATGCCA GAAACTTCTA ATTACATATG
1251 TCAAGAAAAG CTGACAGTAG CTCCTGCCAC TCCACACACC ATGACTTAGA
1301 AAATGTGAAT GAATATATTT CAAAAAAGGC AGCACAAACAC AGTGAAGGGT
1351 CCTGGGCCTG AGCTCCTGGA AAGTCATTTC ACATCAATCA ACTGTGTGAT
1401 CTAGAGCAAG TCACTTAGCC ACTTTCTGTG CTTTACTTTA TTTATCTAAA
1451 ATGAGAGGGT TATACTAAAA AAAAAAAAAA AAAAA
```

(SED NO:1)

5'UTR: 1 - 2

Start Codon: 3

Stop codon: 1191

3'UTR: 1194

Homologous proteins:

Top 10 BLAST Hits

	Score	E
CRA 87000000001426 /altid=gi 7161864 /def=emb CAB76566.1 (AJ25...	560	e-158
CRA 87000000001314 /altid=gi 8923754 /def=ref NP_060871.1 gene...	557	e-157
CRA 103000001515936 /altid=gi 10946600 /def=ref NP_067277.1 hy...	514	e-145
CRA 108000024647823 /altid=gi 12730486 /def=ref XP_003392.2 ge...	395	e-109
CRA 18000005184360 /altid=gi 7505957 /def=pir T23688 hypotheti...	328	8e-89
CRA 18000005004115 /altid=gi 1730069 /def=sp P54644 KRAC_DICDI ...	226	5e-58
CRA 18000004912236 /altid=gi 464395 /def=sp P28178 PK2_DICDI PR...	209	8e-53
CRA 18000004991065 /altid=gi 1362152 /def=pir S56639 ribosomal...	204	3e-51
CRA 18000004952305 /altid=gi 462434 /def=sp P34099 KAPC_DICDI C...	203	6e-51
CRA 107000045076305 /altid=gi 12322721 /def=gb AAG51345.1 AC012...	202	8e-51

EST:

	Score	E
gi 12432521 /dataset=dbest /taxon=96...	1362	0.0
gi 12425892 /dataset=dbest /taxon=96...	864	0.0
gi 9811536 /dataset=dbest /taxon=960...	708	0.0

EXPRESSION INFORMATION FOR MODULATORY USE:

gi|12432521 brain hippocampus
gi|12425892 Breast mammary adenocarcinoma cell line
gi|9811536 Bladder carcinoma cell line

Tissue expression:

Human brain
Human fetal brain
Human fetal heart
Human kidney
Human uterus

FIGURE 1

Docket No.: CL001160DIV II
 Serial No.: TO BE ASSIGNED
 Inventors: Jane Ye et al.
 Title: ISOLATED HUMAN KINASE ...

1 MGANTSRKPP VFDENEDVNF DHFEILRAIG KGSFGEVCIV QKNDTKKMCA
 51 MKYMNKQKCV ERNEVRNVFK ELQIMQGLEH PFLVNLWYSF QDEEDMFMVV
 101 DLLLGGDLRY HLQQNVHFKE ETVKLFICEL VMALDYLQNQ RIIHRDMKPD
 151 NILLDEHGHV HITDFNIAAM LPRETQITM AGTKPYMAPE MFSSRKGAGY
 201 SFAVDWWSLG VTAYELLRGR RPYHIRSSTS SKEIVHTFET TVVTYPSAWS
 251 QEMVSLLKKL LEPNPDQRFS QLSDVQNFY MNDINWDAVF QKRLIPGFIP
 301 NKGRLNCDPT FELEEMILES KPLHKKKKRL AKKEKDMRKC DSSQTCLLQE
 351 HLDSVQKEFI IFNREKVNDR FNKRQPNLAL EQTKDPQGED GQNNNL
 (SEQ ID NO:2)

FEATURES:

Functional domains and key regions:

[1] PDOC00001 PS00001 ASN_GLYCOSYLATION
 N-glycosylation site

Number of matches: 2

1 4-7 NTSR
 2 43-46 NDTK

[2] PDOC00005 PS00005 PKC_PHOSPHO_SITE
 Protein kinase C phosphorylation site

Number of matches: 7

1 5-7 TSR
 2 6-8 SRK
 3 194-196 SRK
 4 45-47 TTK
 5 122-124 TVK
 6 193-195 SSR
 7 6-8 SRK

[3] PDOC00006 PS00006 CK2_PHOSPHO_SITE
 Casein kinase II phosphorylation site

Number of matches: 4

1 33-36 SFGE
 2 89-92 SFQD
 3 212-215 TAYE
 4 230-233 SSKE

[4] PDOC00008 PS00008 MYRISTYL
 N-myristoylation site

Number of matches: 3

1 2-7 GANTSR
 2 197-202 GAGYSF
 3 391-396 GQNNNL

[5] PDOC00009 PS00009 AMIDATION
 Amidation site

218-221 RGRR

[6] PDOC00100 PS00107 PROTEIN_KINASE_ATP
 Protein kinases ATP-binding region signature

29-52 IGKGSFGEVCIVQKNDTKKMCAMK

[7] PDOC00100 PS00108 PROTEIN_KINASE_ST
 Serine/Threonine protein kinases active-site signature

142-154 IHRDMKPDNILL

Membrane spanning structure and domains:

Helix	Begin	End	Score	Certainty
1	197	217	0.690	Putative

FIGURE 2A

Docket No.: CL001160DIV II
Serial No.: TO BE ASSIGNED
Inventors: Jane Ye et al.
Title: ISOLATED HUMAN KINASE ...

BLAST Alignment t T p Hit:
Alignment to top blast hit:
>CRA|87000000001426 /altid=gi|7161864 /def=emb|CAB76566.1| (AJ250840)
serine/threonine protein kinase [Mus musculus] /org=Mus
musculus /taxon=10090 /dataset=nraa /length=414
Length = 414

Score = 560 bits (1428), Expect = e-158
Identities = 278/403 (68%), Positives = 320/403 (78%), Gaps = 7/403 (1%)
Frame = +3

Query: 3 MGANTSRKPPVFDENEDVNFDHFEILRAIGKGSFGEVCIVQKNDTKKMCAMKYMNKQKCV 182
MG N S KPPVFDENE+VNFDHF+ILRAIGKGSFG+VCIVQK DTKKM AMKYMNKQKCV
Sbjct: 1 MGGNHSKPPVFDENEEVNFDHFQILRAIGKGSFGKVCIVQKRDTKKMYAMKYMNKQKCV 60

Query: 183 ERNEVRNVFKELQIMQGLEHPFLVNLWYSFQDEEDMFMVVDLLLGGDLRYHLQQNVHFKE 362
ER+EVRNVF+ELQIMQGLEHPFLVNLWYSFQDEEDMFMVVDLLLGGDLRYHLQQNVHF E
Sbjct: 61 ERDEVRNVFRELQIMQGLEHPFLVNLWYSFQDEEDMFMVVDLLLGGDLRYHLQQNVHFTE 120

Query: 363 ETVKLFICELVMALDYLQNQRRIHRDMKPDNILLDEHGHVHITDFNIAAMLPRETQITTM 542
TVKL+ICEL +AL+YLQ IIHRD+KPDNILLDEHGHVHITDFNIA +L + ++M
Sbjct: 121 GTVKLYICELALALEYLQRYHIIHRDIKPDNILLDEHGHVHITDFNIATVLKGSEKASSM 180

Query: 543 AGTKPYMAPEMFS--SRKGAGYSFAVDWWSLGV TAYELLRGRRPYHIRSSTSSKEIVHTF 716
AGTKPYMAPE+F G GYS+ VDWWSLGV TAYELLRG RPY I S+T EI++ F
Sbjct: 181 AGTKPYMAPEVFQVYVDGGPGYSYPVDWWSLGV TAYELLRGWRPYEIH SATPID EILNMF 240

Query: 717 ETTVVTYPSAWSQEMVSLKKLLLEPNPDQRFSQLSDVQNF P Y MNDINWDAVFQKRLIPGF 896
+ V Y S W + MVSLLKKLL +P+ R S L D+Q+ Y+ D+NWD AVF+K L+PGF
Sbjct: 241 KVERVHYSSTWCEGMVSLKKLLTKDPESRLSSLRDIQSMTYLADMNWDAVFEKALMPGF 300

Query: 897 IPNKGRLNCDPTFELEEMILES KPLHKKKKRLAK-KEKDMRKCDSSQTCLLQEHLD SVQK 1073
+PNKGRLNCDPTFELEEMILES KPLHKKKKRLAK + +D K LQ+ L++V+K
Sbjct: 301 VPNKGRLNCDPTFELEEMILES KPLHKKKKRLAKHRSRDSTKDSCPLNGHLQQCLET VRK 360

Query: 1074 EFIIIFNREKVN R----DFNKRQPNLALEQTKDPQGEDGQNNNL 1190
EFIIIFNREK+ R D + + + +DG+NNN+
Sbjct: 361 EFIIIFNREKLRRQQGHGQLSDLDGRIGSQTSSKLQDGRNNNI 403 (SEQ ID NO:4)

>CRA|87000000001314 /altid=gi|8923754 /def=ref|NP_060871.1| gene for
serine/threonine protein kinase [Homo sapiens] /org=Homo
sapiens /taxon=9606 /dataset=nraa /length=414
Length = 414

Score = 557 bits (1419), Expect = e-157
Identities = 275/403 (68%), Positives = 319/403 (78%), Gaps = 7/403 (1%)
Frame = +3

Query: 3 MGANTSRKPPVFDENEDVNFDHFEILRAIGKGSFGEVCIVQKNDTKKMCAMKYMNKQKCV 182
MG N S KPPVFDENE+VNFDHF+ILRAIGKGSFG+VCIVQK DTKKM AMKYMNKQKCV
Sbjct: 1 MGGNHSKPPVFDENEEVNFDHFQILRAIGKGSFGKVCIVQKRDTKKMYAMKYMNKQKCI 60

Query: 183 ERNEVRNVFKELQIMQGLEHPFLVNLWYSFQDEEDMFMVVDLLLGGDLRYHLQQNVHFKE 362
ER+EVRNVF+ELQIMQGLEHPFLVNLWYSFQDEEDMFMVVDLLLGGDLRYHLQQNVHF E
Sbjct: 61 ERDEVRNVFRELQIMQGLEHPFLVNLWYSFQDEEDMFMVVDLLLGGDLRYHLQQNVHFTE 120

Query: 363 ETVKLFICELVMALDYLQNQRRIHRDMKPDNILLDEHGHVHITDFNIAAMLPRETQITTM 542
TVKL+ICEL +AL+YLQ IIHRD+KPDNILLDEHGHVHITDFNIA ++ + ++M
Sbjct: 121 GTVKLYICELALALEYLQRYHIIHRDIKPDNILLDEHGHVHITDFNIATVVKGAERASSM 180

Query: 543 AGTKPYMAPEMFS--SRKGAGYSFAVDWWSLGV TAYELLRGRRPYHIRSSTSSKEIVHTF 716
AGTKPYMAPE+F +G GYS+ VDWWSLG+TAYELLRG RPY I S T EI++ F
Sbjct: 181 AGTKPYMAPEVFQVYMDRGP GYSYPVDWWSLGITAYELLRGWRPYEIH SVTPIDEILNMF 240

Query: 717 ETTVVTYPSAWSQEMVSLKKLLLEPNPDQRFSQLSDVQNF P Y MNDINWDAVFQKRLIPGF 896
+ V Y S W + MV+LL+KLL +P+ R S L D+Q+ PY+ D+NWD AVF+K L+PGF
Sbjct: 241 KVERVHYSSTWCKGMVALLRKLTKDPESRVSSLHDIQSVPYLADMNWDAVFKKALMPGF 300

Query: 897 IPNKGRLNCDPTFELEEMILES KPLHKKKKRLAK-KEKDMRKCDSSQTCLLQEHLD SVQK 1073
+PNKGRLNCDPTFELEEMILES KPLHKKKKRLAK + +D K LQ L++V++
Sbjct: 301 VPNKGRLNCDPTFELEEMILES KPLHKKKKRLAKNRSRDGT KDSCPLNGHLQH CLET VRE 360

Query: 1074 EFIIIFNREKVN RDNFNRQPNLALEQTKDPQG----EDGQNNNL 1190
EFIIIFNREK+ R + L + Q +DG NNNL
Sbjct: 361 EFIIIFNREKLRRQQGQGSQLLDTSRGGGQAQSKLQDGCNNNL 403 (SEQ ID NO:5)

FIGURE 2B

Docket No.: CL001160DIV II
Serial No.: TO BE ASSIGNED
Inventors: Jane Ye et al.
Title: ISOLATED HUMAN KINASE ...

>CRA|103000001515936 /altid=gi|10946600 /def=ref|NP_067277.1|
hypothetical serine/threonine protein kinase [Mus
musculus] /org=Mus musculus /taxon=10090 /dataset=nraa
/length=488
Length = 488

Score = 514 bits (1310), Expect = e-145
Identities = 250/389 (64%), Positives = 304/389 (77%), Gaps = 4/389 (1%)
Frame = +3

Query: 18 SRKPPVFDENEDVNFDFHFEILRAIGKGSFGEVCIVQKNDTKKMCAMKYMKNQKCVERNEV 197
S + PVFD+ EDVNFDFH+ILRAIGKGSFG+VCIVQK DT+KM AMKYMKNQ+C+ER+EV
Sbjct: 77 SARRPVFDDKEDVNFDFHFIILRAIGKGSFGKVCIVQKRDTEKMYAMKYMKNQQCIEERDEV 136
Query: 198 RNVFKELQIMQGLEHPFLVNLWYSFQDEEDMFMVVDLLLGGDLRYHLQQNVHFKEETVKL 377
RNVF+EL+I+Q +EH FLVNLWYSFQDEEDMFMVVDLLLGGDLRYHLQQNV F E+TV+L
Sbjct: 137 RNVFRELEILQEIEHVFLVNLWYSFQDEEDMFMVVDLLLGGDLRYHLQQNVQFSEDTVRL 196
Query: 378 FICELVMALDYLQNQRRIHRDMKPDNILLDEHGHVHITDFNIAAMLPRETQITTMAGTKP 557
+ICE+ +ALDYL++Q IIHRD+KPDNILLDE GH H+TDFNIA ++ + T +AGTKP
Sbjct: 197 YICEMALALDYLRSQHIHRDVKPDNILLDEQGHAILTDFNIATIIKDGERTALAGTKP 256
Query: 558 YMAPEMFSS--RKGAGYSFAVDWWSLGV TAYELLRGRRPYHIRSSTSSKEIVHTFETT VV 731
YMAPE+F S G GYSF VDWWWS+GV AYELLRG RPY I SS + + +V F T V
Sbjct: 257 YMAPEIFHSFVNGGTGYSFEVDWWSVGMAYELLRGWRPYDIHSSNAVESLVQLFSTVSV 316
Query: 732 TYPYSAWSQEMVSLKKLLEPNPDQRFSQLSDVQNFPMNDINWDVAVFQKRLIPGFIPNKG 911
Y WS+EMV+LL+KLL NP+ RFS L D+Q P + + WD + +K++ PGF+PNKG
Sbjct: 317 QYVPTWSKEMVALLRKLLTVNPEHRFSSSLQDMQTAPSLAHVLWDDLSEKKVEPGFVPNKG 376
Query: 912 RLNCDPTFELEEMILESPLHKKKKRLAKKEKDMRKCDSSQT--CLLQEHLDVQKEFII 1085
RL+CDPTFELEEMILES+PLHKKKKRLAK + DSSQ+ LQ+ LD++Q++F+I
Sbjct: 377 RLHCDPTFELEEMILESRLPLHKKKKRLAKNKSRSRDSRDSQSENDYLQDCLDAIQQDFVI 436
Query: 1086 FNREKVNRFNKRQPNLALAEQTKDPQGED 1172
FNREK+ KR L E P+ D
Sbjct: 437 FNREKL-----KRSQELMSEPPPGPETS D 460 (SEQ ID NO:6)

>CRA|108000024647823 /altid=gi|12730486 /def=ref|XP_003392.2| gene for
serine/threonine protein kinase [Homo sapiens] /org=Homo
sapiens /taxon=9606 /dataset=nraa /length=330
Length = 330

Score = 395 bits (1004), Expect = e-109
Identities = 199/316 (62%), Positives = 237/316 (74%), Gaps = 7/316 (2%)
Frame = +3

Query: 264 YSFQDEEDMFMVVDLLLGGDLRYHLQQNVHFKEETVKLFICELVMALDYLQNQRRIHRDM 443
YSFQDEEDMFMVVDLLLGGDLRYHLQQNVHF E TVKL+ICEL +AL+YLQ IIHRD+
Sbjct: 4 YSFQDEEDMFMVVDLLLGGDLRYHLQQNVHFTEGTVKLYICELALALEYLQRYHIIHRDI 63
Query: 444 KPDNILLDEHGHVHITDFNIAAMLPRETQITTMAGTKPYMAPEMFSS--SRKGAGYSFAVD 617
KPDNILLDEHGHVHITDFNIA ++ + ++MAGTKPYMAPE+F +G GYS+ VD
Sbjct: 64 KPDNILLDEHGHVHITDFNIATVVGKAERASSMAGTKPYMAPEVFQVYMDRGPYSGYPVD 123
Query: 618 WWSLGV TAYELLRGRRPYHIRSSTSSKEIVHTFETT VV TYPYSAWSQEMVSLKKLLEPNP 797
WWSLG+TAYELLRG RPY I S T EI++ F+ V Y S W + MV+LL+KLL +P
Sbjct: 124 WWSLGITAYELLRGWRPYEIHVSPTIDEILNMFKVERVHYSSWCKGMVALLRKLLTKDP 183
Query: 798 DQRFSQLSDVQNFPMNDINWDVAVFQKRLIPGFIPNKGRLNCDPTFELEEMILESPLHK 977
+ R S L D+Q+ PY+ D+NWDVAVF+K L+PGF+PNKGRNCDPTFELEEMILESPLHK
Sbjct: 184 ESRVSSLHDIQSVPYLADMNWDVAVFKALMPGFVPNKGRLNCDPTFELEEMILESPLHK 243
Query: 978 KKKRLAK-KEKDMRKCDSSQTCLLQEHLDVQKEFIIFNREKVNRFNKRQPNLALAEQTK 1154
KKKRLAK + +D K LQ L++V++EFIIIFNREK+ R + L +
Sbjct: 244 KKKRLAKNRSRDGTDKSCPLNGHLQHCLQETVREEFIIFNREKLRRQGGQGSQLLDTSRG 303
Query: 1155 DPQG----EDGQNNNL 1190
Q +DG NNNL
Sbjct: 304 GGQAQSKLQDGCNNNL 319 (SEQ ID NO: 7)

>CRA|18000005184360 /altid=gi|7505957 /def=pir||T23688 hypothetical
protein M03C11.1 - Caenorhabditis elegans
/org=Caenorhabditis elegans /taxon=6239 /dataset=nraa
/length=379
Length = 379

FIGURE 2C

Docket No.: CL001160DIV II
Serial No.: TO BE ASSIGNED
Inventors: Jane Ye et al.
Title: ISOLATED HUMAN KINASE ...

Score = 328 bits (833), Expect = 8e-89
Identities = 156/353 (44%), Positives = 226/353 (63%), Gaps = 2/353 (0%)
Frame = +3

Query: 66 HFEILRAIGKGSFGEVCIVQKNDTKKMCAMKYMNKQKCVERNEVRNVFKELQIMQGLEHP 245
Sbjct: 27 HFSVIRSIGRGAFGKVCIVQERKTKKYFALKYMNKRRCIEKGVAANVIRELTLLSKMSHP 86

Query: 246 FLVNLWYSFQDEEDMFMVVDLLLGDLRYHLQQNVHFKEETVKLFICELVMALDYLQNQR 425
Sbjct: 87 FIVNLWYTFQGDYMYMVSODLLLGDLRYHLSQQGKFAEDRAKLYLCEICLAVEYLHEMK 146

Query: 426 IIHRDMKPDNILLDEHGHVHITDFNIAAMPLRETQITTMAGTKPYMAPEMFSS--RKGAG 599
Sbjct: 147 IVHRDIKPENILLDEQGHAAHTDLNLATQLEDDQLATSYSGTRPYMAPEIYATYLEIEDG 206

Query: 600 YSFAVDWWSLGV TAYELLRGRRPYHIRSSTSSKEIVHTFETT VVTYPSAWSQEMVSLLKK 779
Sbjct: 207 YDSRVDWWALGVC FYEMLRGRTPFEFSSRTKPEEAYVAFRESSIPYPAHWPTDLIQFINS 266

Query: 780 LLEPNPDQRFSQLSDVQNF PYMNDINWDAVFQKRLIPGFIPNKGRLNCOPTFELEEMILE 959
Sbjct: 267 MLKFDKEKRLVGLEAIKKHSYTERIDFKSVFEKKPSPVFIPCKEGLNCDPMYELEERILV 326

Query: 960 SKPLHKKKKRLAKKEKDMRKCDSSQTCLLQEHLDVQKEFIIFNREKVNRFN 1118
Sbjct: 327 STPIH--RRRTNHNHNSSGRSSSEPQNAALVE----VSKAFIDFSRHNVKIEPN 373 (SEQ ID NO: 8)

Hammer search results (Pfam):

Scores for sequence family classification (score includes all domains):

Model	Description	Score	E-value	N
PF00069	Eukaryotic protein kinase domain	241.7	1e-68	1
CE00359	E00359 bone_morphogenetic_protein_receptor	18.9	0.00012	1
PF00433	Protein kinase C terminal domain	8.8	0.2	1
CE00022	CE00022 MAGUK_subfamily_d	8.6	0.02	1
CE00203	CE00203 ERBB_RECEPTOR	6.0	0.25	1
CE00031	CE00031 VEGFR	5.1	0.12	1
CE00528	CE00528 CDC14_PHOSPHATASE	1.7	8	1
CE00292	CE00292 PTK_membrane_span	-44.9	1.9e-06	1
CE00287	CE00287 PTK_Eph_orphan_receptor	-45.1	2.4e-05	1
CE00286	E00286 PTK_EGF_receptor	-59.9	1.7e-07	1
CE00291	CE00291 PTK_fgf_receptor	-81.9	0.00049	1
CE00290	CE00290 PTK_Trk_family	-158.8	0.00022	1
CE00016	CE00016 GSK_glycogen_synthase_kinase	-216.0	0.00011	1
CE00288	CE00288 PTK_Insulin_receptor	-225.8	0.21	1

FIGURE 2D

Docket No.: CL001160DIV II
Serial No.: TO BE ASSIGNED
Inventors: Jane Ye et al.
Title: ISOLATED HUMAN KINASE ...

Parsed for domains:								
Model	Domain	seq-f	seq-t		hmm-f	hmm-t	score	E-value
CE00031	1/1	134	168	..	1059	1093	5.1	0.12
CE00203	1/1	136	172	..	855	891	6.0	0.25
CE00359	1/1	142	191	..	272	326	18.9	0.00012
CE00022	1/1	133	223	..	133	226	8.6	0.02
CE00288	1/1	23	238	..	1	269	-225.8	0.21
CE00528	1/1	251	260	..	608	617	1.7	8
CE00292	1/1	23	276	..	1	288	-44.9	1.9e-06
CE00287	1/1	23	276	..	1	260	-45.1	2.4e-05
CE00291	1/1	23	278	..	1	285	-81.9	0.00049
CE00286	1/1	23	278	..	1	263	-59.9	1.7e-07
CE00290	1/1	23	279	..	1	282	-158.8	0.00022
PF00069	1/1	23	281	..	1	278	241.7	1e-68
PF00433	1/1	282	301	..	1	20	8.8	0.2
CE00016	1/1	1	331	[.	1	433	-216.0	0.00011

FIGURE 2E

1	TCCCTCTCTC	ATACCATTTA	ATTGGTTGCT	TCCTAATTAA	TGACTCTCTT
51	TGCTCTCTAT	TTAATGATTC	TTGCTAAAGT	CCATAAGGCA	CTTTGCCAGC
101	AGTTGGTTTT	TAGTATGAAA	AGTAGCATTT	CCTTAATGAG	TCTGAGTCTG
151	CCTTCCAAAT	GAAGGGTTTA	CTTACATTTT	CCTAATGGGA	AAACGAGCTT
201	TTCTTCTACG	CTTCCTTAGG	GGTTTCATAA	GTTCTTTTTC	AATAACTCAT
251	CCTTAACACT	TTCTCCAATT	CTGCCTGTAA	TCAATATTCC	CTTCACATGT
301	AAAGAGCTCA	GGAGGAAATC	AACTATTTTT	TTAAAAATAC	GCAATAAGGA
351	AATTCTGCTA	CTCTTAGAAA	TAGCAGGAGC	TAACATTCAT	TCTTTGCATA
401	TCATGTGCTA	GGCATTGTGC	CAATTACCTT	ATATACATTG	TCTCATTATA
451	TGTATCCATG	ACCATATATG	TGCTAAGCAT	GAAATTTTCT	TAAGCCAGAT
501	AGCTGAGTAG	AATTTTAAAA	TATTATTTTG	TACAAAATCT	AGACCTTTAC
551	CCCATTTGGG	GGATAGATCT	GAAGATCTGG	GCTCATGTTT	CCATGTGGTG
601	ACAATCTGTT	TGATCTGAGC	ACAATTACTT	TATTTGGATG	GAGCCATTGC
651	CACCATTGTC	TGCCCAATGC	ACTAATGTTA	AATGCCCAGT	CTGGCTCACT
701	CATTTGCATC	ATCTGCCTGG	CTCCTATAGG	GATCCCAGCT	TGTCACTCCT
751	GAGGTAGACA	CTGTCATTTT	CCCCATTCTA	GAGGTGAGAG	GTTACATAAC
801	TGGGCCAAAG	GCATTATCAG	TGTCAGTTTT	AGGACTGGAA	CACAGGATGC
851	TGCCTCTCTT	TACCATTATG	TTTTAAAGTG	GAGCAAAGCC	GTAGTTTTCA
901	GGATCTTTTC	TTGTTACAC	ATATCATTTA	ATTTGAGCCT	CAGAGCGGCT
951	AACAGTTTTG	AGCACTTATG	CTATGAAAAT	GTTTTGTGTA	TTCAAGTAAA
1001	TGTATGCATA	TCATACATTT	ATGTAECTCA	ATACATATAT	ATAAATGTGA
1051	TATAACATAC	GTATGATATA	ACAGAGTTAT	ATATATGTGT	ATTATTTAAC
1101	TTAATATATA	ATGAGTTAAG	TGTATGCATA	TCATAGATTT	ATGTAECTCA
1151	ATATATAAAG	AGTTATATAA	TACAACAGAG	TTGATATATA	TATAAATGTT
1201	GTATATAAAC	ATAATATATA	CGTTAATATA	TATTAACAAA	GAGTTGTATA
1251	ATACAACACA	GAGTTAATAA	TATATAAATA	CAACACAAAG	AGTTATATAT
1301	GTGTGTATTA	TACATTTAAC	TTAATATATA	ATGAGTTAAA	TGTATGTCTG
1351	TCCCATTCAA	CTCTCCATTG	AGGAAAGTAC	CATTATCTTC	CCCAAGTTCA
1401	GAAGAAGAAA	ACAGAGAAAT	ATATTGAAAT	TCAGCAATTT	GCTGGTGTGG
1451	TCAAGTCCAA	CCCAGAACTT	GCTTCTTTTA	CATTGTAGTA	CCCTCCAGGG
1501	TATGCAGAAA	CAGATAGCTA	GTGCATCTTT	ATGACTAAAA	AAGAAAATTT
1551	TTGTTGTTGA	TTACCCAGTA	ACAACAAGAC	AGTATAAAAT	CAGCATATTT
1601	TCTCAACAAT	ATTTTCATTT	TATAGTTGTT	GAATAAAGTA	TTGCTGACTT
1651	CATTTTAAAC	TTTTCTACAT	ACTTTGAAAA	ATATGTTGCT	TTCTCTCCAT
1701	TTTGTAAGTC	TAGGTCTGCT	ATTGATGAGC	CATGCAGTGT	TTTCTCCTGT
1751	TGCTTGATGT	TTTTATTCTG	AAATCATGGT	TGGTTTTCAA	ACACAAAAGT
1801	TTTCACTACA	GTGATACAGA	TGAGGTTTAT	GTTTCCGCCA	CAGTCTATAC
1851	TCAGGGTGCC	TAGAGTATAG	CATATTATTA	GGGTACTATT	TCTTTTCCTA
1901	TCCTAGATAT	CCAAC TAAGG	CTTCGGGACA	TGTTTTGAGC	GAAGATGGGT
1951	GTTTCTGCCC	GGATAGTATA	AATCGAGGAT	CCAGGTCTGG	GCAGATTCAA
2001	CCATGGGAGC	GAACACTTCA	AGAAAACCAC	CAGTGTTTGA	TGAAAATGAA
2051	GATGGTAAGA	AATATGGGAT	AGTGGCATAT	AAAAAATAGA	ATTTTGCAAA
2101	ATTCAAGTAT	ATGCTTCTAG	TTTCATAAGT	TAAGCATAAG	CATGGTCTGT
2151	AGGGCCTTGA	AGGAAAAAGG	CAAAGCTGCA	TGAGTGAGTC	TGAGGACTTT
2201	GTAGGCTCAT	AGCTAGGTTT	TACCTTCCAC	TTTCCATGGG	ACCTTTGGCA
2251	GCTTTCTTAA	TCTCCACTAT	ACCAATGTCC	TTTGTCCAAA	GGGAGCTGCA
2301	GTTGGGCATG	TGGTGGATAG	TTAAATGATT	TGTTTGTCTT	CTGTGCTGTT
2351	CCTTGGCAGT	TGAAGTTACC	CCCATTGCTC	ATTGTTACAG	AAAATACATT
2401	ATCAACATGT	ACATGAATGA	TAACCAAGTC	TCATAATATT	ATAGAATGAA
2451	GCTGTGCCTT	CTGAATTTCC	AACTGCCAAG	CTTTTGTGTA	CTAGACAAAT
2501	CCCATAATGC	TACGTCATAG	AAAAAAGAAT	CAGTTGTATT	GGAGAAAAGG
2551	GAAACTTTCC	AGGCCAGACT	CAGCAAGACA	AGAATAAAGG	CATGAGTCCT
2601	CCTGATTCTC	CCATCAGTGA	GGCATGCTGG	AACTGGGCAA	TGCCTCCTCA
2651	TGTCCCTCTT	CCTTCCTATA	TGTAAAGTCT	GAACAGCATT	GGCGTATGCA
2701	GGTGGCAGCT	GTTTATAGGT	TGTCTGGGGG	AAAAAAATGC	CCCAAGCCCC
2751	AGGTAGTAAG	TTGTCCAGAC	CTCTGAGAGG	GAGCTCTTCC	GAGTAATTCC
2801	CAGAGAGCTC	TGCTAATTGG	AACAGGGAGG	AAAAGAATGG	ACTGAAATTC
2851	AGGAAATCTG	ACACCAGTCC	TACTACCAGT	TACTTGCTAG	GCCCAAGCAG
2901	CTTATTTACT	GACTCTATCT	TCAATTTTGT	TATCAATAAA	GTGAGGAGAT
2951	AGGTTCTTTC	CCACTCAAGA	AGTTTATCAT	TTTGAGATCC	TAAAGCAACT
3001	TTGTGAATTC	TGAAGAAGCT	TCTAAATCAT	CAAGGAAAGT	TTATTGGGTT
3051	AGAATGCAAG	TTTGATTGCT	GAAATGAAAA	CTACAAATAA	CAGTGGCTTA

FIGURE 3A

3101 AGCCAAATGG AAATGTTTAT CTTTCTCATG TGACAATCTA GGCATAAGTA
3151 ATCCAGGTGA TGTGTGGTTC CAGCAGCTTA GGGACTCTGA CGCCAACTAC
3201 TTGCCTTTTT CCCTCTCTTC CCATTTCTAG AGTGGTACCC TCAGAGTGGC
3251 TAACCAACAC AACAAATTCC AGCCAGTGAG AAAGGTGGAA AGTAGGAGAG
3301 GTTATGCCCA CTTATTTATA GGATTTGCTC TGGCTTGTCA CTTTCGTTCA
3351 CTTCCACTTA CCTAGATACA AGAAAGACTG GGAAATTCAG TTTGTTATCT
3401 TGGGTGGCCA TGAACCTTCT AAAAATAAGG AGTTCTGTTT TATTACAAAA
3451 GAAAAGAAGA ATTAGGAGTT TGT CATGATT GGGGACAACT ACGTCTGCTG
3501 TAGTTGGGGC AAACAATCTT AGTTTTGAAT CTTGGGATGG AAATACTTTT
3551 AAAAAACAAA TATGGGCCAG GCGCGGTGGC TCACGCCTGT AATCCCAGCA
3601 CTTTGGGAGG CCGAGGCGGG CGGATCACGA GGTCAGGAGA TCGAGACCAT
3651 CCTGGCTAAC ACGGTGAAAC CCCGTCTCTA CTAAAAAATA CAAAAAATTA
3701 GCCGGGCGTG GTGGTGGACG CCTGTAGTCC CAGCTACTCG GGAGGCTGAG
3751 GCAGGAGAAT GGCGGGAACC CGGGAGGTGG AGCTTGCAGT GAGCCGAGAT
3801 CCGGCCACTG CACTCCAGCC TGGGCGACAG AGCGAGACTC CATCTCAAAA
3851 CAAACAAACA AACAAACAAG CAAAAAAACC CAAAATATAT GGCTGATCAG
3901 GACGCCTTGT TTCAAGCTAT TCACTATCAG TTTGGAGGCC CATTCTTACT
3951 ATTTCTACAG AATAGTTCAT AGGAACTTTG AAATTATATA GCTGGAAAGG
4001 GGTCTTAAGA AAACTTTTTT TTCATGGCTA TTGTGATTGC CTTGCTTTAA
4051 CTTATCAAAT AGTAAAAGCA AAGATCTAGA GACTAGTGAT ATTACTTAAT
4101 TTTTCTGTCT CTAAAATGGA AAGACAAATA GGCTTGCTTT TCATTTAGTT
4151 GGTTCCTCT GCTTCCTCTG GACTCAGAGC TAATGTTGTA CATGAGGCTG
4201 GTCGTCAGAG AATAGGGTGG AAAAGAGAGG CCAGCTGCAT ACTTTTAACT
4251 TGCTGGGCTA CATTTGAAGG TAGTAGAATA GCATTATGAT GAGAAAACAC
4301 AGAAATGCAT AACTCTTCCT TGATTCAGCC AGGCTTTGTT CTTGCGGGAT
4351 GCCCAAGAAA GCTACATAAC CAAAGAATTG TGACAATTGG GAAATAAGAT
4401 ACCCCTTTTT AGTTACTTTA AAGGACTCTA GAAAAACTAG GTTGAAGGAG
4451 AGTTAGGCTT AGGGACCAGA CAGGTCTTTC TTAACACCCT CTAGGTCACC
4501 ACCTTTTCTG TTGTCTGGCT TCTCAGCCCA ATGAGATGAA CCCACTGCAG
4551 CACCCATAAA GGAAAGATCT GAGCATAGCA ACAAGTCTGT GCCTCCCAA
4601 GGTGCTAGGC TCTCTGTCTG TTTATGCAGA CAGTTGCAAG GCAAAGGAAG
4651 TAGGAGGGCA AGTCCACCTA CTATAAACCT GTCCTCTCT AGACATGAAG
4701 AATAGAGGAG GAAACAAGTT GGTCTTTGCT CTGTCATTGT GAACCCCATG
4751 TTCTGATGAT GGAAGGCTGA CAATAAAAAG GTAAATAATA CATAAACCAG
4801 ATAATTTTAC AGTGCCTTAA AGTGCCACCA AGGAAATGAC TCCTAGTGAT
4851 CTTACAGACA GTGACAGTGA TGGTGAGGAG GCCACTTTAG ATAGGGTGGC
4901 TGCGGTTGTC TTTCTAAGGA GGTGACATTT GGGCTGAAGC CTGAAAGATG
4951 AGAAGAAGCC ATCTATGAAA TGACATGAAA AGAATAGTTC AAGAACAGGA
5001 AAAACAAGTC CAAAATCCAA ATAATGACAA AATCAGGATT GAATAGTTGC
5051 CTATATCTTA ACGTTCTCTC ATGAGCACTA GTTTGCCAAA GAGACTGCAT
5101 TTATTGCCAT GTTAACTTAT TTCTTCAAAA GATGATTGAT TTGAGGAGAA
5151 AAAGTATGCC ATTCTAGGGA ATTTACTTTG CTTTAAAATT CAGTACATTT
5201 TGTAAGTTC ATTTGACTCT TCACATAAAT CTGGATTGAG CACAAGGTAA
5251 AATTGTATCT GATTGCTGTG AAGCTCCTGA CCAAGAAAAA GCAACCAAAA
5301 AGCACTGATT AACCAAACAA CATTAATGCT TATGTCATTT TTGATATCCA
5351 TATTTTTATA TACATAATCA TAATGTATAA TCAAACCTGG CCAGTATCAA
5401 GGGCACTAAA ATGAGCCAAC TTAATTATTT AAAAAATATT GCTGAAAAGA
5451 ATCCCAATAT GTGATTTTTA AAAAGTTTTT TAAAATTTTT AAAAAGATTT
5501 TTTAAAAGAT TTTTAAAAAT ATTTTCTTCA AACTGTTTAA TATTTCCAAT
5551 ATATAGATAT GAGAAAAACA TTTAACCAAT AATTTTCCCA AGTAATGTTT
5601 CAAGAATTCT CTCTTATGGA AAAAGTGTTT TTGTTCACTT TGAAGGTAAT
5651 TAAGGAGCAA GATAAGAGGT TATTGGATGT CCCTTGAGAT AAGCTATTCT
5701 TGCCAGAATT CATCCTGACA CTTGTATTTT ATGTTGTTCC ATCTGATATC
5751 TGATCTTGAA CACATAATTT TATTAGTTAC TTATGTTGAT CTTTATTGAG
5801 CAAAAACAAA GTAGGAGATT TTCAGGCTAG GCATGGTTGC TTACGCCTGT
5851 AATCCCAGCA CTTGAGGAGG CCGAGGCGGG CAGATCACGA GGTCAGGAGA
5901 TCGAAACCAT CCTGGCCAAC ATGGTGAAAC CCCATCTCTA CTAAAAAATA
5951 CAAAAAAAT TAGCTGGGCA TGCCAGTGTG CGCCTGTAGT CCCAGCTATT
6001 CAGGAGGCTG AGGCAGGAGA ATCTCTTGAA CCTGGGAGGT GAAGTTTGCA
6051 GTGAGCTGAG ATTGCTCCAC TGCACTCCAG CCTGGCAACA GAGCAAGACT
6101 CTGTCCAAAA AAAAACGGCT TGCTTATTTG ATTATATAAG ATATCTTTCA
6151 TAAATTAGAT CTCAAATTAT ACTATTGTTT TGCAGTTTTA GCTTTTATGT

FIGURE 3B

6201	TTTAGGGCAA	ATCTTAAGTC	CTAATTACTT	TTTTTTTATT	ATTGTGGTAA
6251	AATGTATATA	ACAAAATGTA	CCATTTAATC	ATTTTAGAAT	ATACGGTTTA
6301	TGACATTAAG	CACATTCACG	TTATCATGCA	ACCATCACCA	CTACCCATCC
6351	TCAGAACATT	TCTCTTCTCG	AATTGAAACT	TGGTACCTCT	GAAACAATAA
6401	CATCCACATT	CCATCCCCTC	CCCAGTCCCT	GTAAACAAC	CATTTGACTT
6451	TATGTCTCTA	TGAATTTAAC	TACTCTATGT	ACCTCATATA	AATGGAACAT
6501	ATAAGATTTG	TTCTTTTGCA	TCTGGTTTAT	TTCATTTAGC	ATATATTTTT
6551	AAGGTTTCATC	CATGTTGCAG	CATGTGTCAA	GATTCTCTTT	CTTTTTAAGT
6601	CTGAGTCGTA	TTCCATTGTA	TGGATATACC	ACATTTTGTT	TATCTTTTCA
6651	TTAGTTGACA	TTGATTGTCC	TCACCTTTTG	ATTTTGTGA	ATAAGGCTGC
6701	TATAAACATT	GGTGTGCAAA	TATCTGTTCA	AGTCCCTGTT	TTCAATTCTT
6751	CAGGGTATAT	ACCTAGAAGT	GGAAGCACTG	GATCATATAA	TTCCTTGTTT
6801	GACTCTCTGA	GGAACCATCA	TACTGTCTTC	TACCTAATTA	TGCTTTGTGT
6851	TTTAGTAATG	GGACACAGCC	TGGCATGATG	GGCTAGAGTA	TTGGAAAGGC
6901	ATGCACAGGT	TCAAGTCTCA	GCTGTGCCAC	GTGCCAGTAA	TCTACATGTT
6951	TCTATGAGAA	GAGTCAAAGA	GGATATAGCC	TGGTCAACCA	TTATCAGACA
7001	CTGGAGTCAG	TTTGACTAAT	TATATGGTGT	TCTAAGGAAA	CTTGAGGTAC
7051	CACAAGAAAA	GTCTCCAAAT	CTAAATAATT	ACTAATGAAT	TAATTGAGGG
7101	GGAAACTTAT	TTAACCTTTG	TAAGCCTCAG	TTTCTTTGTA	TGTA AAAATGC
7151	AGGTAATAAT	TGGGCATACT	TCATTAGGTC	TTTGTGAGGA	TTGAATAAAT
7201	AATGCAAGTA	AAACACTTAG	CAAAGTATTT	CCCATAAAGT	AACCACTCAA
7251	TTAATGCTAA	TTAAGTGTTA	TTTACTAACA	TCAGAGTTTC	CTAGTGTGAA
7301	CTCTTTGAAG	TACTTTAAGT	TCTGAGAAAA	ACAAAATTAA	TTAAATGCAA
7351	CTCTGTGCGAT	TCCACAGTTA	ATTAGACCTA	TTCATGTTTC	TATTGACTGG
7401	ATTAACAGAA	CGGCAGATTT	TATGGATTCT	GTAAAAACCT	ATATAAAAAC
7451	ACTTTAAAAG	AAGCCAAGTT	ATTGACTGCA	CAAAAACATA	ATCTCATCTG
7501	ATATCTTTTT	TATCCCCCTG	AGGTTATTGT	GTTTTTGTTT	AAGGCAAAAT
7551	CAAGA ACTAA	TTGGGATGAA	AATAACTAAA	GTTTACTTTG	TCTGATTTAA
7601	GTCCCAA ACT	GA CTAAATAAG	TAATCCCATT	TGATCAACAG	ATTCA GTGAA
7651	AACTGTCCCC	CATTCTCAAC	TACCATATGG	ATATTCTGAG	AAATAATTAA
7701	TGATGCAGAA	AAACATTTTT	TGTTTTCTGA	AATAAAAGAA	TAGACGTGCA
7751	AGTGACACTT	CTTTTTAATG	CTTACAACCT	TTTTTTAAAA	ATCTACTTTA
7801	TTTTCTCTAT	CTGAATGCAC	TAGATTTTGT	TTGTTTGTTT	TTGTGGTTGG
7851	TTGGTATGGT	TTTGCTTATT	GAGGTTTTCA	GGCTGATTTA	GAAAAAAGAA
7901	ATTTTTACAG	GAGAGAGTGG	ACTTGTTTAC	AATTCAGAGT	TGAGGCAACA
7951	AAAAAAAATC	TTGCAGTCAT	TATGAGTAAT	ATGTGTATCC	AAGTTTATAC
8001	AAAGAATGTA	AAGGTGATAA	AGTTGGCTTA	GTAAATCAA	GAGACAGCCT
8051	TCTTCTAGAA	TATTATAGCT	AAGAAAATTT	GGACTTAAGT	TTAAAAAGCT
8101	GCTCTAAAGA	GTT CATCAAT	GCCCTGAGTT	TGCAGAGAGT	TCAATTATTG
8151	CATTATTCTT	TGGACTTGCT	GAAA ACTCAG	TGTTCTACTT	TTATTTGGCA
8201	ACACCATCTC	CTAGGATATG	TGGCTGTTTC	CAGTTTTCCA	GCATCTTCAG
8251	TGACAGAGGC	AATGGGATCC	TTTAAAATGT	TGGGCCAAGA	AAATTGGCCA
8301	CAGATTTGCA	ATCCAAAAGA	AATAGGAGGT	TGCTAAATTG	ATTCCAGCTA
8351	TGAAGGACAT	CGAAAATTTT	TTTTGTTATT	TGACTGTCTA	TCATGGTCTA
8401	TTTGCACTCA	ATTTAATAGG	CAAATGAATT	TCCGACTTTC	CCTTAGCAGC
8451	CTTGAGTAAT	GCTGTCTCGT	ATTTATTATT	TTGCATTAGA	ATGGTTGGAA
8501	AAGTTAAAGG	AAAATTTCCC	TAGCAAGAAT	TGGCTTCTTA	AAAAAATAAG
8551	TCATCTTGGA	CAACCTAACA	TTTAGTAAAG	GCATTTGTCA	TAAATAACCT
8601	CAAGTCCAAT	TTATGGCAAG	GGTTTTAATT	TGTAAGGGCT	TTATTTCTCC
8651	ATACAAAGGG	ATTGGAGAAA	CAA ACTAGAA	AGCCAGAAAA	CAGACCACAA
8701	ACACTGAGCT	AGTGGTTCCA	ACTGGAGTGT	TCCCTGAGCA	GTGACTTATG
8751	AATACTTGTT	TAGAAGAATC	AACTCAAACA	AATTTAGGAA	AGTCACATCC
8801	TGCCTTTAGA	GCTTCCAGTG	TTTGTTAGCA	TATTAAGTCT	TCTGAAATGA
8851	CCTACAATAT	TGAAATCTCA	GTCTTCTGCT	ATTTTTAATA	TTTATTTCAA
8901	AATGAAATAA	TTTTTG TGAA	AAACATTTTA	ATGTCTGTGG	CTCATAATAT
8951	TCTGTGGATC	TCAGTTTG GG	AAATGAAAGA	TTATAATCGT	ATCTACTCTT
9001	TATCTGTTGG	AAACATCTTT	CCATTTATTT	TTCTGCTGG	TTTAATGGCA
9051	ACAAATTTTT	ACATGTGAAA	TATTTGTAAT	GTGATTTATA	TGAAAAAATG
9101	TAATTTTCTT	ATTACACGAT	CAAAAGTGGT	TATGCTCCTC	TGTAAGTTTT
9151	TCCTTACAAG	TTTTTATGTT	GCATAATTTA	TATCTATTTG	GTTTAATGAG
9201	TACAACACAA	GATAGCTCAG	TTTAATTCTG	GGATGTTGGA	TGTTTCTAGT
9251	TAAAGTACAA	GTTGGATTTG	ATGAAAATTC	ATTGCTTCTT	TATGATTTTT

FIGURE 3C

9301 TAAAACTCAA GAACATGTGA GTTAAAGAGT GTCTTCTGAA CAAATTCTTG
9351 TGAAGTAGTT GCTGATTATT AAGTAACACT CATGCTACCG TAACTTTTTTA
9401 TACTATCCAA AGCTATAGAC ATTTTAAATT TTCAACTTGC AACTACCTAG
9451 GTTGAAAAAT TAAATCTGCA AGCCAGTTTC ATTATTCAGA CAATTTGGTT
9501 ATCACTTCAA GCCTACTATC TTCAAAGAAA ATGGGAGTGC AGGCCTTCAT
9551 GGGAGCTGAC TTCTGCTGTA TGGCCTTGCA AATGTCAACT CGATTAGAGT
9601 GACCAGTGTT AGCCCTCAAT TCACAAACTC AGGTCCCATG AAATATACAC
9651 GGATTTCTAC TATGCATTAC TATGTGACCA TTCATGGAAG TTTCGTTTGG
9701 AAACACAGAC ATTAAAAAGC CAGTCATGGA ATAACATTCT TGTTAAAACA
9751 GGACATTGGC AAAAAGGACT AGAAAACTTC TGGCTATAGA TTTTGAATCC
9801 AATAGCCTTG CATAGGCTTT TCTGTTTCCT CCTAAACTAT GTCTTCTGTC
9851 CTTTCTGGAG GCATATTTAT AGTAAAAATA ACAAATTAAC CCTTGTTTTA
9901 CACTTGAGTA ACCTATACCT TTGGTTATTT ACGAGAATTA CTTAAAGCAG
9951 AGTTGGCAAC TTTTCTGTG ATGGGCCTGA TACTAAATAT TTTACACTTT
10001 CCAAGTAATA CAGTCTCTGT CACAACACT CAACTCTGCC ACTGTAGCAT
10051 AAAAGCACAC TTAGACAATG CAGAAACAAA TGAACATGGC TTTGTTCCAA
10101 TAAAACTTTA TTTATGGACA CTGAAATGTG AATTTCAAAA ATATTTTTTG
10151 CATAAGATCA AATATTATTC TTTTGATTTT TTTCCAATCA ATAAAAAGTG
10201 TAAAAATTGG CCGGGCATGG TGGCTCATGC CTGTAATCCC AGCACTTTGG
10251 GAGGCCGAGG TGGGCAGATC ACCTGAGGTC ACGAGTTCGA GACCAGCCTG
10301 ACCAACATGG AGAAACCCTG TCTATATTAA AAATACAAAA TTAGCTGGGT
10351 GTGGTGGGGC CTACCTGTAA TCCCAGCTAC TCGGGAGGCT GAGGCAGGAG
10401 AATCGCTTGA ATGCAGGAGG CAGAGGTTGC GGTGAGCCCA GATTGCACCA
10451 TTGCACTCCA GCCGGGGCAA CAAGAGCAAA ACTCCGTCTC AAAAAAAAAA
10501 AAAAAAAAAA GTGTAAAAAC CATTCTTAGT TCATGAGCTA TACAAAAATA
10551 GATAGTGAGT TAGATTTGGC CCATGGGGCT TATTTTGCTG ACTCCTGCTC
10601 TAAGCATCTT GCAGACATTT CTTCATATGC CCTAGGAGAT TTCTGATATC
10651 CCCTCATAAT ACCCTGGCCT TACACCAAGA CTACAATCTG TTCTTTGCAG
10701 ATGCTTAATA AATTCATTCT TCCCTGTCAT TCAGTTGATC TGTGTGAGCC
10751 AGTGGAATA CTTGGGCCAA TAAATCTAGT GTGTTTGAGG GTAAAAATAG
10801 CTATTTTTGT AAGATATATT ATTTAATGGC CACACAACCT AAATTCAATT
10851 AAATGGTTAC AACCTGTAA CATTTAATA TATGACTAGG CAGAATTTGC
10901 TTCCTACTAA AGACATTTAT TCGATTGAGG AGCATCCAAC AGTTGATGTT
10951 GATCCCCCA TCCTGCCCA CTGTTCTACT TTGCAATTTG TTTGAAAGAA
11001 ATTGTCAATA TATTTCTGAC TTCTGAGCAA ATCCATGAAT CGGGATCCAG
11051 CAACAGGAAA AGAAGCTGTT GCTGCCCAT GCTTGGTTTT GGCACCAGGA
11101 ATGGATAAAT CCCAGACTTC CTGGGGCAGG TGTTTTATAA AAGGGAAGTG
11151 CTGACAGTGC AAACAGCTGC CATCAATTGG CCTTGGAGAC TACTTCCCTG
11201 GAGAAGCTCC AATTATATTC TTAAAGGACC CACCAAGCTC TTCAAGTGTT
11251 AGTGGCAACC ATTTGCTGCC AACCATTGGA AATGATGAAG TAATTTTTTT
11301 TTATTAGTGG ATCCTAAGTG ATAGGCTCTA GAACTGATCT TCAACCTTAA
11351 CTAATATCAT GGCATCAGAG GGCTACAGAT TAAATCAGTG GTTCCCAGTC
11401 ACTCTCTGTG GACAAGTAGC AACTACGACA AAGCTTTTCT TAGTCTATGG
11451 TGGAAGAGAA AAATTAGGAC AATGTAATA GCATCCCATA AACTTATTAA
11501 ACCTATTAAA ATTTAATTTT AAGATTATGT CATTTTTTGT ATGTGTGTAT
11551 GCTTAGTATT TATGGATTGT GGAAATAGAA TTTTTTTTTT ATAGTGAGAA
11601 CCTAGGTAAG TGACTTACCT CTCTGATCCC CCATTTTCTC ATATGTAGAA
11651 GGGGGCTAAT AATAGTATCT GTCTCATAGT TTTTGTGAGA ATAAAAAAT
11701 TGTCCAGGTA AAATGCTTAG CTGGTGACTG GCACACAGTA ATTGCTCAAT
11751 AAATGTTAGC TATTATTGCT ATCATTATAT AATCATCATG GTTTCCAATG
11801 CCTTTACTTG GCAAATAAAA GAACAAAAGT CACCCGATAT TGATCTCCCT
11851 TTTCTTCCCT AGTTTTCTGG GGGGTGGGAG GCAGAGACCG AATTTTCTGA
11901 TCTGTGAAAT CTGAATTTAT CATTGTAATT TTCCATAAGT GCTATGTAGA
11951 GAACTCATTT AAGTTGCTGG GATGAAAAA AATCAAAAGT GGCCTATTGT
12001 GCTGGGTGCA GTGGTTCACG CCTGCAATCC CAGCACTTTG GGAGGCTGAG
12051 GGGGGTGGAT CGCCTGAGGT CAGGAGTTCA AGACCAGCCT GGCCAACATG
12101 GTGAAACCTT GACTCTACTA AAAATACAAA AATTAGCCTG GCATGATGGT
12151 GGGCACCTGT AATCCCAGCT ACTCAGGAGG CTGAGGCAGG AGAATCCCTT
12201 GAACCCAGGA GGTGGAGGAT TCAGTGAGCC GAGATCTACT GCACTCCAGC
12251 CTGGGCAACA GAGTAAGCCT CTGTCTCGAA AAAAAAAAAA AAAAAAAAAA
12301 AAAAAGTGGC CTCATCTTCA TTTCAGTGAA AGATGATAGT ATCTGGACTC
12351 ACAGTGTGGC AGTGCAGACG GAAAGCTGAG AGTTTATTCA ACATTTATTT

FIGURE 3D

12401	TCAATATAAA	ATAATTAGGT	GTTACTGATG	GCTTGAATGT	GGGGTAAGAT
12451	GGAAAGAACA	AAATCAAGGA	TAAATCCTAG	GTTTTTGCTT	GAGTAGTTAT
12501	GTGGATGACT	GTGACATTTT	ACTAAGATGG	AGATGCGTGG	GAACGGAGGG
12551	GTTTGGGACC	CTGCTCACAT	ACAGTCTAGA	GTTCACTTTT	GGAGGCATAC
12601	AGTGATTATG	GGACAGCTAA	ATGATGGTGC	CAAGTAGGAG	CTGGAGTAGA
12651	GTATCCAGCA	ATGAGTGGAA	ACATCTGGGA	TGGAGACAGA	AAGACACGGG
12701	TATTAATTCT	ACGGGGATGG	CTAAGTCTGC	TCTGAGAGAC	AGTGTGGAGA
12751	CCAAGGAGAA	GAGGAATCCT	AATATTTAGA	AACAAGGCAG	TGGATAGCAA
12801	TCTAGCTATG	GAAAGTGGAA	GGAAAGAGAT	AGTTGATCAT	CCAGTTCAAC
12851	ACTACTCTTG	TTGTAGTTCA	CTTATGTTGA	ATGCTTCTGT	GTGACTAAGT
12901	CGGTGAGAAA	AATCTATGGG	AGTAGGCAAC	ATGGAGGATG	TTGGTATTCA
12951	CAAAAGCAGT	TTAGTGGAGT	GTGGAGGCCT	GAGCCAGACT	AGAATGAGTT
13001	AGGAGTAGAT	GGAAGATAAG	AATGCAGATA	TGGGCCCAGC	GCGGTGGCTC
13051	ACGCCTGTAA	TCCCAGCACT	TTGGGAGGCC	AAGGTGAGCA	GATCACAAGG
13101	TCAGGAGATC	GAGACCATCC	TGGCTAACAC	CGTGAAACCC	CATCTCTACT
13151	AAAAATACAA	AAAATTAGCC	GGGCCTGGTG	GCGGGTGCCT	GTAGTCCCAG
13201	CTACTCGGGA	GGCTGAGGCA	GGAGAATGGC	GTGAACCCGG	GAGGTGGAGC
13251	TGGCAGTGAG	CCGAGATGGT	GCCACTGCAC	TCCAGCCTGG	GCAACAGAGC
13301	AAGACTCCAT	CTCAAAAAAA	AAAAAATAAA	AAGAATGCAG	ATATGGCAAG
13351	TATAGACAAG	CTTCAAGAAG	TTTGGTCTAA	AAGGAAGCGG	AGAAATAAAC
13401	AAAGAGATGA	TGCCTAATAT	AATTCAGCTA	AATGTAATAT	AATGGATTTT
13451	TTTAAGATGA	GGTACTAGAG	CATGTAATAT	AAATCTATTA	AATTGGGTGG
13501	CCAGGAACCA	GGACTGGCTC	ATCAGCATGG	ACCAGGCTAG	ACGCACAGGG
13551	CCTTATATCC	AGAAGGACAT	CACCTTTGGG	TTTTAATGCT	CTGCACTTGC
13601	TGTCTCCAAA	TTCTAACTGT	CTCTTAGGCT	CTCATCAACA	CCCACCTCCA
13651	TATCCAGATA	TTGAGTACCT	CAGGGAGTTC	AATTTGGAAG	CAAATGATGT
13701	GAAAATGTAC	TTTACTATCC	AGTAACATTC	TTGTTAGGGA	GTGTTGGCAG
13751	AGATTGTCGA	ACAACCATAA	TGCATTTTAT	CATTCGATCA	GTCTACAATT
13801	TAAACATAGC	AGGACTGGAC	AGAGGCACAG	GAAGATTAAG	CCACTGACCT
13851	TAAGTCAGAC	AGTCACATGG	GTAGATCCGG	AATCTTGATC	TAAAATGAAT
13901	ACCATTTTTT	CAGTTATAGC	TATCTTCCCA	GGATGGCCAA	CCAGAATGCA
13951	TATATAAAAT	TTCAAAAACA	AACATTGGGA	ATTGCTCTTC	AGCAAGAATA
14001	CATCAAACAC	CCATTATGTG	CCTAACTCTA	AATCTTACTT	TCAGAGAGCT
14051	AAAAACAATT	TCATTTTACA	GTGACATTCA	TCTTCGCTTC	TGCCGTAAC
14101	CACATGCATA	TGCCTTAGAC	CACATTATTA	ATGAAGTATT	GGGGGGTTCC
14151	ATCTAGAGCA	CCTTTTCTTC	CCTGGAGTTA	ATCATCCAGT	TCAGCACCAC
14201	TCTTGAGCTT	TGCTTAGCTT	CTTCTACCCA	TTTGGATTTT	AAGGACAACA
14251	ATTCCAATGG	CCTTTATCCA	TGTATTTAAC	AATTCATTAT	GAGCCAGGTG
14301	AAGTGGATCA	CACCTCTAAT	CCCAACACTT	TGGGAGGCTG	AGGCAGGTGG
14351	ATCGCTGGAG	CCCAGGAGTT	CACAACCAGC	CTGGGCAACA	TGGTGAGACT
14401	CCATCTCTAC	CATTTTTTTT	TTAATTAGTT	GGGTATGGTG	GCAGGAGATC
14451	AAGGCTACGG	TGAGCTGTAA	TTGCACCACT	GCACACTAGC	CTGGGCAACA
14501	GAGCAAGACC	CTGTCTCACC	AAAAACAATA	ACAATTTATT	TCATCATCAT
14551	TGTCATCATC	ATTGTCACTG	CTCACTCTTC	AACATTTTTT	AGGTCAACTT
14601	AATTAATATG	ATACCTTGTG	GGATAATTTT	TATTTATTTT	TATAAAATAT
14651	TGAAGTTTTT	GCCACTTTGA	TAACCTCTTC	ATTTTCTGTC	CAGAGTATAA
14701	CATACCAGGG	AAAAGGCTCT	AAAATAAGGC	TTGAGGTATT	AAAAAGATCT
14751	TCTGTTTAAG	TCTTATGTTC	CTAATCAATA	ACTAGAATTG	GCCTGATTGC
14801	TTTCCTCAGT	GGGTTTTCTG	GTAGTCCTGA	TATGATATCG	AGGCTGTCAT
14851	ATAGTCCTGA	AATATCCTAT	CATTAACATT	TGTGGTGGTA	TCTGATATAA
14901	AGGTAGATGA	ACTTCATTGC	AGCTATTCTT	AGGAAATGCG	TATTTAAATG
14951	CATAGTTAAA	AGCAAGATTT	ACAATTATAG	AAGGAATGCA	AATGAGTTGT
15001	AGAAAGCTCA	TAAAATAAAA	ATCAAGAAGA	AAGAATTACC	CATCATGCCT
15051	CAGCCCAGTG	ATAACCACTG	CTAATATTTT	TGGCTGTTTT	CATTTGCAAC
15101	CCCATCTCCA	TTCTAGCAGC	CCTCATCCCT	CCTACCCACT	ATGTTTTTCA
15151	CTATATTTCT	TGTTTAAATT	TACTTAATTA	TTTGTTAATT	ATGTTTTTCC
15201	TCTCACTAGA	AAGTGAACCT	CATGAGGGCC	AGGGATTTTT	GCTATTTTGT
15251	TCATTTTGT	ATCCTTAGCA	CCTACTTTGT	TGATTAAGTG	AATGCATTAA
15301	TGATCTATTT	TTAATCTGTG	TATGTGTATA	AAAGACACTT	GATATATCTG
15351	GGATGATATT	CAATATACTT	TTGTATCCTC	ATTTTCACCA	TAGGTAGTTT
15401	ATGTCAATTC	CTTGAAATTT	GTTGATTTTC	TTGAATAATT	TAGCAGTTGT
15451	ACAATTCTAA	AACATAAATA	TAATTTGCTT	AAATATACAT	ACCATTTTAA

FIGURE 3E

15501 ACATATTTAA ATGTGAAAAT ACAGTTGAGT TCTCTTAGAT TGCAATTTTG
15551 TAACTTTTGA TAATCCTTTG ATCCTGAAAA AAATTTTTTG GCATGAGGGA
15601 AGAGATGAAT ATTTCTTTTG GAGTATTTAA ATCATCTCTG CAATAATCCT
15651 TTGATCCTGA AAAAAAATTT GTGGCATGAG GGAAGAGAAG AATATTTCTT
15701 TTGGAGTGTT TAAATCATCT CTACAATTAA TAATATCTAA AGCAGTTTGG
15751 TTGGTTTATT TAGGTAGGAT TAATTTTCAG TATGAATATT ATTTAAAAAA
15801 CAAATATAGT CAGTTGAATT GCTGTGGAGG TTTCTGTACG ATTTACTCAA
15851 AGCTGGCTCT TTTTCTGTAC GCACTACCAC GCCCGGCTAA TTTTTCATT
15901 TTTTGGTAG AGATGGGGGT TTCACCATGT TGGCCAGGCT GGTCTTGAAC
15951 TCCTGATCTC AAGTGATCCA CCCACCTCAG CCTCTCAAGG TGCTGGGATT
16001 ACAGGCATAA GCCACCATGC CCAGCCTGCA TTTATCCTTA CATGATGGTG
16051 AAAAATAATG TTTGTACTTC CTTCAGAATA ATTTCAAGAA GGATCCCTGG
16101 AGTCAGCTAA TGATTAGAGT CAGGACTGTG CCTTAGTTGA TGGCCCATAT
16151 AGCACTACTG AACATGCCAG AGCTTTTGCT TATCCATACT GGAGGAGGGA
16201 GTGCTTAGAA GGCAAACGTA TATCATTTTA TTTTCATTCA AAATGTACTG
16251 ATAGCAAAGA ATTTCAATGG CTGGCAGATT CAGTTAAGGA CAAAAATAAT
16301 TCACAGCAGA AACTTTTTCT TGGTCTCCCT CCTCCAAGTG CTAAGCATGG
16351 CACAAGTAGA TATCATGGAA TTCTAGAACC CTCTCTTCAT AGATCTTAAA
16401 AACTACTCTC TTTCCCTGCT TGAGTACTTT CTCAAATCTG TGTCTGTGTG
16451 CAAATTTTCC TTCTAAGGAC ACCAGCCATA CCGGATTGAG GGCCCACTCT
16501 ACTCCATTTT GATACTGTAC CATCTTAACC GAACATGTTA TATCTGCAAC
16551 AACCCCATTC TCAAATAAAT TTCACAGTCT GACATACTAG GGGTTAGGAC
16601 TTCAACCTAT CTTTTTGGGA GACACCTTTG GTTTGACTGC TTCTTCAACT
16651 CTTACCAGCT CTATGAGCTT GAGCAGGTTA CATACTCTTT TCAAGTCTTA
16701 GTGCTTCACT TGTATTTTGG GGCTAATAAG GATTATACGA AATAATGCAG
16751 GTTAAATGCC TAGCACTTTG CTTTACATAC TAAGGGTTCC CAAGTGCTTT
16801 ATTATTAGGT TTCTGAATGT TATATATAAA GTTTCAGTGC TGCAAAAGGA
16851 ATAGCACTCG AATATAACAT TTTCTTTTAA ATTCTCAGCA AGGCAACGTA
16901 CTTCTATATA GAAGGGTGCA CCCTTACAGA TAGAATAATG GTGGGCGCAC
16951 ACTTGACAA GGGAGGAGAA GGGGTTCTTA TCCCCACGC ACGTGGCCCC
17001 TGCTCCTGTG TCGTTCCCTT ATTGGCTAGG GTTAGACCAC ACAGGCTAAC
17051 CTAATTCTGA TTGGCTAATT TAAAGAGAAT GACGGGGTGA GGGCTTTGGC
17101 AGAGTCAGGG CAGAGCAGAT AGCAGGTAAT CGGACTGAGT TAGGGTGGAG
17151 CAGGTGATCT GAATGAGTCA GGGTGGAGCA ATCAAAAAGG TTGCTTTATG
17201 AGGAAGTTAC GTTTAAAAGT AGAAGGCAGG CTGGGCGCGG TGGCTCACGC
17251 CTGTAATCCC AGCACTTTGG GAGGCAGAGG TGGGCGGATC ACGAGGTCAG
17301 GAGATGCAGA CCATCCTGGC TAACACGGTG AAACCCCGTC TCTACTAAAA
17351 ATACAAAAAA ATTAGCTGGG CGTGGTGGCA GGCACCTGTA GTCCAGCTA
17401 CTCAGGAGGC TGAGGCGGGA GAATGGCATG AACCCAGGAG GCGGAGCTTG
17451 CAGTGAGGCG AGATCCTGCC ATTGCACGCC AGCCTGGGCG ACAGAGACTC
17501 CACCTCAAAA ACAAACAATA AAAGTAGAAG GCAAAGAATT GAACATACTG
17551 ACATATTAAG TCTTTGAAAA GAAATTTAGA ACTCATATCT AACAATCCCT
17601 CCCCTTGTAT TTCCTTACAG CTTTCTTTTC AAACCTTTTTT TTAATATGCC
17651 TTGGCTTAGT AGTTTTGCTT CATTTTCCAA AAGAAGAAGC TTCTCTGGAT
17701 AAGGTGGAGG TTAGTTAAGG GAGGTTTCAG TAAGTGACAT TTTTATGAGC
17751 CTCTGCATCT ACTTACGGAT GCACAGTATG ACACAGCACC CGACAAGAAT
17801 AAGTCCACCT ATTACGGCTG CGAGGGAAGT AAGAATTGAG GCTATTATTC
17851 CTTCTCATTT ACCAAACTAC TTTTCTAGCC ATCTTATAAA GGGGTCATTT
17901 ACCCCTGAGT TGCTGGCTAA CTTATTGGAT AGAGCAGTCA GACCATGCAG
17951 TGCCTTTCTA ATAATTCCAT TAGGGGCGAG GTTGTTTGGG ATGAAGGTGC
18001 AACATTGAGT TTTAATTATG ATGCAAACTA CCCCTCTTTC TGCTACTATC
18051 ATGTCTAAGG CTATTTTATT TTGCCAAGCC ATCTGGCTAG TAGCCCCTAA
18101 TTGCTCAGCT ATTCCATTAA CAGCATCTCT AGTGAGTTA ATAAATCACT
18151 GTTGGTTGTA GTAGCTGTAG TTTATCCAAT CTACATTTTT ATTAATTGTC
18201 ACTCACCAAA ATATTGACTT AAATCCTGCG GCTATTTGAT TTTGGGCTTT
18251 AAATTGATCT GGTATTCCTC ATGGGACCCT AATTGTGTCT AAATAGACGT
18301 GAGAGTTGAA AGACCCATAA GGGGCTTCTC TCGCTTTACG ATGTCTTATT
18351 TTTCTTCTCT CTGGTTGATG AAATGCCAGG GTGAAAGGGA TAGCCAATTG
18401 GACTAAAGCA CAAGTGCCAC TCCAGTTATT TGGCAGAGTG TCCAGTAAAG
18451 GTCCACCACA ATACCACCAC ACATCCACAC ATCCGCTCGG GGATGAATAA
18501 GGGCTGACTG ATTGATAAGC TCTTGAAAAT TCTTAAGCTC ACTGCATCCC
18551 TTCAGGTCTC CAAGGAACGC TAAGTTTCCT CCCTGTCATG AGAGACACTA

FIGURE 3F

18601 AGTGAAGTAG TTTTGGGAGA CAGAAGCTGG ATGGCCCTTG GGGGCTGACC
18651 TGCAGGGTAC CAGACTTCGG GATATAGCAG AGAGAGAGCT TGGAACTGACT
18701 TATTACTCCA GGCTGTAGAA TCCCTGGAAA AGAGCTACCA TGCAGCCCAT
18751 GCCTGGTTGA CTGGAGGACC ACCCTAGTGG AAAGGGGACA ATCTGGAATA
18801 CTTGATCCAT TCTAACCAGG CATTTGCATC TTGGTATCCT GTCTTAGTTG
18851 CCAAAGTTTG CTTTAAGTCT TTGTTTTTTT GTTGTTTTGT TTTGTTTTTT
18901 GAGACGGAGT TTCGCTACTT GTTGCCCAGG CTGGAGTGCA ATGGCGCAAT
18951 CTTGGCTCAC TGCAACCTCT GCTTCCCAGG TTCAAGCAAT TCTCCTGTCT
19001 CAGCCTCCCG AGTAGCTGGG ATTACAGGCA TGCACCACCA TGCCTGGCTA
19051 AGTTTGTATT TTTAGTAGAG ACGGTGGTTT CTCCATGTTG GTCAGGCTGG
19101 TCTTGAAGTC CCAACCTCAG GTGATCCCCC TGCCTCGGCC TCCCAAAGTG
19151 CTGGGATTAC AGGCGTGAGC CACCGAGCCT GACCTGTTTT AAGTCTTTAG
19201 TTTTACAAT AGCTATCTTG GTCTTGTTGT TAGATGGAGG AGGAGCAACT
19251 GTTCCGTTGT GAGAGGTTTT GGAAGAAGGC TTACAGGAAG GTGCAGGCGG
19301 TGGGGATCAA AGAAATGCAT TTTAAATAAT CTAATAGGGT TTGTCCCTGA
19351 AACCTCAGCC CCTATAGCAT AAAACTGACT TAAAGAAGGG AACTGGCTTA
19401 GAAAAGGGGA AGAAATTTGA GAGTTTGAGA TAATAACCTG TAGAGAATTA
19451 TAGATAATAA CCTGTATAGG TTTAGCTGAC AGCTGGGGGG AGGGCTGTCT
19501 CTTTAGTAAA ATGAGTGTAT GGTTTTAGTA AATTACAAAA ACTGGTTGGG
19551 GCAATCCCTT CTTGCTATTT AGTGGTCCAC AGAACATTGG ACCAACTACA
19601 GCATAAAAGC TCTACGTCGG GGGCGGGGCG GGGGGTAGGA CTCTGGGTTG
19651 ACATTGGGGT CTTTATTGAA ATTTCCCCGG ATTAAATGGT CCCAATTCAC
19701 TAATGCCAG TCTGATGACA GTCAGGAGGC ACAGAGGTAT TTTTCTGAA
19751 ATAGAGAGGT GTCTTTGACT TGGCAAATCC CCACAGGGTA TAACAAGGCA
19801 AGCATTAAGT GCAATAGTTT GAGGCAAAAT TGACTTGGTT ATGTTAATAA
19851 CTAGATGGTC AGCAATAGAG CCAGTAAAGA AGAAAGAGTA ATAGAATAGA
19901 TAAAAGAGAG TTAAATTTTT CTAGCTTTA GTTTGGCAGG GCTTTCCCCT
19951 GGGGCTGTGG CCCACAATC TGGAGGGGGC GGCGCTTTCT TGACTCGGGT
20001 GTGATGAGTC CATCCCTTTT TCACTGTAGA AACAGCAGTC TTGGTGGTGA
20051 GCAGCACAAG GTAGGGTCCT TCCCAGGCTG GCTCGAGTTT TCCTTCTTTC
20101 CACCCTTTGA TAAGAACGTG ATCTTCAGGC TGGTGTGGT TTACCGGAAA
20151 TTCTAGGGGT GGTACCTGTG CTAAAAGACT TTTAGTTTTG AGGGAAAGGA
20201 AAATGGAAGA TAAACCAAGT ATATAATTTT TAAGAAATGG ACCTTTTGTT
20251 TTAAATGTGG GGACATCAGC AGTGGACTTT ATAGTCCTTG GTGCCTTTTT
20301 ACTGAGAAAT TTCCTTTAGC ACCTATTTTT ATTAGATTTT AGACCAAAGA
20351 AGGCCAAACA CCATTTTATA TTTAACAGTG CTTCTGTAT GATTCTTATA
20401 CCAGATAAGC TAAGTTTCAC CTTTATATTA GCAAGTTGTT AACTTTAATT
20451 TTAATAAAAC TTTGTAGACA TATTTATCCA ATTTTAAATG TCTGACCATA
20501 ATGTATGATT CTTATAGACT CTTTTTAACC TTTTATAATT TTTGTTAAAG
20551 AGCAGGTTAG TGCTTTAAGA AATACCTGTT GTGCTTTTAT TTTAATGTCC
20601 AGTTCACAGA AAAACTGTAT GATACCCCTT AACTTTTAGC CAATATGTTT
20651 ACACACAGAA TTTCCTTTAT AATTAACATT TCAAAACTTG CTAAACCTT
20701 TAAAACAAAA TATTTGTTTA TTTTAAACT TTTAATGTAG GTAAAAATCC
20751 ACATTCTTAT GGCTCCTTAT AATCCTTTTA CCAAAGGCAT ATTTTACTTT
20801 CTTATACAC CTTGCACATA AACTGTTTCT TCAATAGCTT TACATTCAGG
20851 AGGCTTAATT ACTTTTAAAT TATACAACAT TTCTTACATA AATTCCCTTT
20901 TAAAACTTTT TTTTCCTTCA CAACTTTCAC AGACAATTCT TTGACATGCC
20951 TCAACTTTCT GACTTGTTGT AAACATCCCT TTCTTTAAAC AACTAGTTAA
21001 TTTATTTTAG GACAAGAATT TACTATATAA CATTCTTTT ACATAAATTC
21051 TCCCTCTCCT TTTTTTTTTT AAGATAATCA TTCTTCTCCA AAGCCAACTT
21101 CCTTTATGTC TGTGGACAAG ACTGTCTAAG GCCACAAGAT TTGAAGTTAG
21151 GATAATACAT GTTACACTGT TAACTTTTAG CTAAATTTAC TTTTGTTGAA
21201 AACCTCTAAG TTTGGGATTT CAATTATTCT TTGCTATTAA TAAGACCTTG
21251 TTTAGTCAAA ATTAACCTCAG AATTGGTATA GATGGCTTTT TTTTATTATT
21301 ATTATTATTC TGTAAGTACT TTAAGGCTTG GCTGAGTGCA AACAGCTCTC
21351 ACGTTTGAAC AGCACCAATT ATTAGGCAGT TTTCTTAAC CTGCTTCTAC
21401 AAGTGTTTCC TTATCACTTC CTGAATACTC ATTGTGTCTT TTTCCCTCAA
21451 TCACCCGGGA GGAACCTGTC CTGAAGGGAT TTAGATCCCC TGTTAGGCAA
21501 ACCTGCTGGG TTAAGGGGAA TTTTCAGTGG TTAATGTAA ATCATCTTTT
21551 TCTAACAGTA ATAGCCCCAT ACTTTAAGAT TTTTGAGTTA GTAAGCTACA
21601 TTTTCACTTT TTATATATTT TTTGACTTAG GGTAGTTCTG AACTGGTGAG
21651 GTGTGCTCAC AATGAGGTTT CCTCTAAAAG TTACTTTTCT ACTTCCTTCT

FIGURE 3G

21701 GTTAGCAAAG CAGTTGCGGC TACAGATTGA ATGTATTGAG GCCATCCGCG
21751 GGTTACTGGG TTAAGGATTT TTGATAGGAA GGCTACTGGT TGTGAGTGGC
21801 CTCAGTGCTT TCAGGCTATG CCCTTGTTTA TACTTACAAC AAGGTGGTAC
21851 TGGAGTGTTA TAGGGTCACC GAGAAGACCT TCGATTATCA GTTATAGGTT
21901 TTAAATTTAC CCTGGCTTTT TTTTTTTTAT TATTATACTT TAAGTCCTAG
21951 GGTACATGTG CACAACGTGC AGGTTTGTGA CATATTTATA CATGTGCCAC
22001 GTTGGTGTGC TGCACCTATT AACTAAGGAA TAGGGTACAC TGTTTTTTCT
22051 TTAATACTTC TATCTCTTTC TTTCCCTCTC TGACTTTCTG TCTCTTCTT
22101 TCTGACTCCC TCTTTGTAGC TCTGCCTCTC TTTCTCTCTC TCTGCCTCTC
22151 TCCTCTCTGT CTCTCTCTTC TCTGTCTCTG TCCTGTTTCT CTCTCTCTCT
22201 TGTTTCTCTC TCCTCTGTCT CTCTCCTCTC TCCCTCTCTT CTGTCTCTCT
22251 CTCCTGTCTC TCTCTTCTCT TCTCCTCTCT CTCTCTCCCC TCTTGTCTCT
22301 CACTCCTGGC TGTCTCTCTC TCTCTCCTCT CTGTCTCTCT CTCTCCTCTC
22351 TGTGTCTCTT TGTCTCTCTCT CTCTTCTCTCT CTCTCTGTC TCTTGTCTCT
22401 CTCTCTTCTCT CTCTCCTGTC TCTCCTCTCT CTCTCTCCCC TCTCTCCTGT
22451 CTCTCGCTCT CCTCTGTCTC TGGCTCTGTC TCCTCTCTGG CCCTCTCTCT
22501 CTCTTCTCTG GCTCTCTCTC CTGGCTCTCT CCTCTCTGAC TCTCTCTCTC
22551 TCTCCTCTCT CTCTCCNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
22601 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
22651 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
22701 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
22751 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
22801 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
22851 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
22901 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
22951 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
23001 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
23051 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
23101 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
23151 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
23201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
23251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
23301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNAAA
23351 AAAGGTTGCT TTACGAGGAA GTTAAATTTA AAAGTAGAAG GCAAAGAATT
23401 GAACATACTG ACATATTAAT TCTTTGAAAA GAAATTTATA ACTGATATCT
23451 AACACTGAAG GAGGCTTATG CTTAGGGTTT TATGTTAGGA GTTTGGTTTA
23501 GAGCATAGCA TCTTTTATTT AGAAGAAATC TAATTCTTAA TATGGAATTC
23551 ACAAGTAGGA TTATGAGGAA CCCTGAAAAT TATATACAAA GTTTATTTTG
23601 TGTATTTGAA TTATTTTTC TCTTTGAAAA AGGCATGTAT TCACCAAAGG
23651 AGTCCATGCT ATCCCCCCA AGCTAAGACT GCTTCTGCTC ATCCTCAGCG
23701 ATTCATAGTT GCCTTAGGAT ACATTTATAG GGGACCCTCA ATTTTAAAAA
23751 CTTAGCACTG AATCAGAGAG AAAACTTGAG AGGCATTTGC GAGGTAAAT
23801 GAGAGTGACC GATGCTGTAC AAGAGTAGGT CTCGAAATGT GGTACTTTTC
23851 TTGGGTTATC TCGTCTTATT CTCATCACAA ATGGTGAAGA AATGGTCAGC
23901 CACATTAAAG AGCAGATACT GAGATTCAGC AAGTGAGAAA ACCTGTCCTG
23951 GTTCACACAG CCAGGAAGAG GCAGAGGCAG AATCCTCACC CCACTTCTGT
24001 TTGCCTCCAA AGCTCAAGGA GAGTGAGCTT TACCCTTCAT ATTTACTCAT
24051 CCTCTTACTA ATTTGACTCT TAAGATAATC CTGAGATTTA AACCAGAAAA
24101 CTATTATGAT CCCCTTATTT GAATGAGAAT ATATGTCTAA AAATGATTTT
24151 TAAAAACACT ATTAAGGTC ACAAAGCCAG TGAATGATAA AGGGATTGGT
24201 ACCTCTGGCT CCTATAGTTA GTTCATCCTT CAAAGAACAA AAATAGCCCC
24251 CATTTATTGA GTGCCTACTA AACTCTAGAT ATGTTTTTAA TATATGCTAT
24301 CTCATTTAAT ACCTACCACA TTCCTGTAAG GTAGGTATCA TTCATTATAC
24351 CTATTTTACA GATCAGGAAA AAACAAAACA AAACAAAAAA AAACAAGACT
24401 TTCTAGGGAA AGATGCTGAA TAGAACACAT TCTTCTACAT CCATTCCTTT
24451 CTGAAGATCT TCCTAATATG ACAGGTAGGG ATTTGTCTTA AGATTTAAAC
24501 CCACAAGGTA TGAAGAGACA GGCAGAAGAG CTTCACTATC AACGTTGCAG
24551 AAACCTGAAA GGAGACAGAG AACTAGAAGC AACATAACTG AGTCCTAAGC
24601 TTCTAGAAGG GGAAGGTGAG AAATAACCAG ACCCATGCCG TAGAACCTC
24651 CAAAGACTCG GGAATTGGCA CTGTCTATGT CCTCTAGAGC TAGAGGTGAA
24701 GGGGAAGAGC TAAAGTAAAT GACATTGTTT GGATATCTAT TAAAAACTA
24751 GTCATGTCCC TTCTACCAAC TTGGAAAAAG AAAAAAAA ATTCTCCACT

FIGURE 3H

24801 CCATACTATG GTTTATCCTC TGAAGAAGAA GTTTTCTTAG TGGGGAAGTT
24851 GAGTGCAGAA GATGCCTTGC TGAAAATGGA GGGATCGGGT AGATAAATGC
24901 ATACTGGATA CTGGGGCACC CAGCCTCCTC TTCCCACTTG GCTCTGATAA
24951 TACTGGCAGC CAAGGACTCA CCCTCCAGTA AAGAGAACGA CAGAATATTT
25001 TCTGGAGATT TTGACCAATC CAAGAAGGAA GATTTTAAAAT TATCAACATT
25051 GGAGATTTTC TAATTCAACA TCCAGGCCAC AGCTAGAAGC AACACTATAG
25101 AAGTTTATTG CTGGCAAGAG CCACATACTC AGAATGTCCA AACAGGGGTT
25151 TAGGTCTCCA CACTTAAATA TGAGCAGACA ACCAAGGATT CTCAGGCTTT
25201 TGGGGAAGCC CTCTAATATG ACTGATAGAG ACTAAAACAA ATGAACAGGG
25251 AAAAAGTTAG CAAAAAGTAT AAGAAAGGTA AGAGAAAGCT ATGAAAACCA
25301 AAAAACAAAT AACCAGACAA AAAACAAACA AACAAAATAG ATACCAAGAA
25351 AATAGCTTTT GGAGAGCAAA AATTTGCTTT GGGAAAAAAA TTACAGCATG
25401 AATGGAAAAA TCCAAAGAAG ATTTAGAAGA TATATTTAAA GAAAATTTCC
25451 AGAATAATGA GCAAACAAAG ATATAAAATA AGGGTAAATA TAAGAACATT
25501 TAACGGCCAG GTGAGGAGTT CTAGTTTCTA AATAATAGGT ATAGAAAGAG
25551 AGAAAGAGAA AATGGAAGGG GCAATAATTA TTACATATTT TAAGAAAAAG
25601 AGTCCAGAAT TGAAGAACAT AAGTTTTCTCAG ATTAAGGAG CCTATTAAAT
25651 GCCCAGCACA ATGAATAAAT CATAACATAT CAAAACATTC AACACAAGTA
25701 TATAAGACTA GAAGTTTCTA GAGAAGAAAA CTGTTACATC AAAAGGATCA
25751 GGCATCAAAA TAGCTCTAGA CTTCTCAACA GCAATGTGTG AAAAGGTAGA
25801 AGATAAGAGC AAAGCCTTCA AATTCTGAAG GAAACAATTT CCAACCTAGA
25851 ATTCAATAGT CAGCCAAACT ATTAGTCAAG TGTGAATACA ATAAAAATAT
25901 TTTTCATGGA TATATAATAT TTCAAAAAAT ATATCTCCCA TGCAATCCTT
25951 CTTACAAAGC TGTTTTAAAA TGTGCTTCAG TAAACAAGA AAGAAGGGGG
26001 CACTGCATGC AAGAGCCAGG AATCTATCCT TAAAGAGGCA TGAAGGAAAT
26051 CCCCAGGGTG ATGGTGAAGG GAATACCAGG AAGACAGCTG TGCAGGAATA
26101 GAGATAAATA GTCCAGACTG GATTATGTCT GAGGAGAGAC ATTTTCAGGA
26151 AGATGACAAT GTGCCTGATG CACCTGAGCA TTATGAAAGG GAACTAGACA
26201 ACTGGAGAAG GGTTTGGGAT TGGATTGGGA AGGAGATGTA GAAAAGTCAA
26251 CATGTGTAAA CAAGACTGTT ACTAATTCCA GGGAAAGCCA AAAATTGTGC
26301 AAGAAAAGAA AACTAATCAT AGTTTACTAC AACTCAATTG AGCCTACCAT
26351 TTCTGTATTC ATAATAATGG AAATACCGAA TATTGATCTA ATTAAAATTA
26401 TTATGCCAGA TGTATTAGAA AGATGGAGGC ATGTTGGGAT AAAACCAAAG
26451 GAGCAAGAAC ATGAGCTAAA TCCCCATCTA CCACCTTGAA TATTCAATAA
26501 CTAATGCCTA AAATGAAAAA GAAAGGACAA TAAAATTATA CTCTTTAGGG
26551 ACATGGTGGA GATCACCCAA TGCATATCTA AAGAGAGGTA AAAGTGGTTG
26601 CTCCTTGGCT GGGAGAGATT AGAAGGGGGG TAAGTAGATC ATAGGACTGC
26651 CATTTTCTCC TTTTAAAAA ATAACAAATC TTTTAGAACT ATTTGATTAT
26701 TTAAGCTATA TAAAGATATA GATAGTTATG GACACAAAAC TTGAAAAAAT
26751 GAAAACATTA AAAAGACTGA AATAGAGCAA AATATGAATC ATGGTTATCT
26801 TTAGATGGTT TTGTTTTTCT TCTTTATACT TTGCTGTATT TTTTATACTG
26851 ATAGCATATT CGTTTTATAT ATATGTGTGT ATATATATAT TTTACAATTA
26901 TATATACAAT TTTATATATT TTATATATAT ATTTATATAT ATACTCTTCA
26951 TTGTAAACAA GAAATTGAAG TTCAGAAAAG TCAGATAAAT TTCCTAATTT
27001 CAAATATCTT GTAAATGGTA GAGCTAGGAT TCCACTGCAA GTCTGTCTGA
27051 TGTGAAGCAT TTTTATCTTT CATCAAAGCA TTCAATCTTC GTTAAAATCC
27101 GAGAGGCAAA ATTGTCATGC CTCACCATTCT TCTCCCATCT CTGAAGGTCC
27151 ATAGTGCCTC TTTTGTACAC CATACAAAAT AACACTTGAT TGGTTTCATT
27201 ATTTGTTTAC TTATTTGTCT ATCTATACAT TTATTCAATAT TCATCTAATT
27251 TTAGAAAGAT GAGAGAATGG ATTCCAAAGG TACATAGATT ATAGCAAAT
27301 AAAATAAAGT TACAAAAATG AAACAAGGGA CATTTGATTA TTCAGGTTTT
27351 GTTTTGTGAG ACTGCTAAAT GAGGCACACT CAGTTTTCTT TCTCTGCTTG
27401 GGGAGGGTAA GTGTCCTGGG ACTGAGTCCC AAGCTTCTTA TGTTTTTCCA
27451 TCAGTGCCTA GGAAAGTCCT GGGTACACAG ATACTCAATG AATGTTTGTT
27501 GGTTTGACTT GCCAGCAAAG CCGTGGCTCC TAGGGAAGTG ACTTCAGCTT
27551 CTTTATCTTC TTGGTGTGAC TATCTTAAAA GGGAGTAAGT GAGCCTTTCT
27601 TTGTAAGTGA CTGTATTTGA GAATGCAGCA TGACAGACAA AACATTCATC
27651 TCATTCATGG AGAATTGTAA AATCCAGCAG AAGAGCTCTC TTTTAAACCA
27701 GTGCTTACAA TTTGTCCTTT TTCACCCTTC CTTGGCAAAT CACGCAATAT
27751 TCCTTCTTAA AAATGGGTAA AGTGCCAGCC GAACTTAGAA GAGGGACTGA
27801 TTCTATCTCT ATTCTGACCA GGTATACGGT AGACTGTAAT TTAATGTCAG
27851 CACCTTTCTG TTGCCATAAT GAGGTATATT TATTTCTGTT CAAAGATCAT

FIGURE 3I

27901 GCAGCCCTGA CAAAGCAAAT ACCCTCTGAC TCCCACTGTT AATTATCCTT
27951 CAGTTGCTAC AGGGTTTTCA TCCATGTCCT CACTTAGGAG AGTTGGCGGT
28001 TGTGAAGCAG ATGGAGTCCA CAATCTCAGT GGCAGTTCTT AATGCTTTGA
28051 GCTCAAAGTG TGAGTAAGTC GATGAGTGAG GCTTTTAAGA TGAAATCCA
28101 ATATCTGCAG AGAAATCTGA AGCTGTAATA TTAGAACAAC ATTCAAATGA
28151 GGACTTCATT GACTAGCTCA TTAAGAAGTC CTTTGATAAT AGCATGTTGG
28201 TAAGACTTTT CTTAGAAGGT ACATATTATA AATGATGATG TGCTAAGAAA
28251 TCAACATAAA GGAAAATAGA AAAATTTTCC CCAAATCCAT CCTTTTTCTG
28301 TAGAACTTTA ATGATGATAC CTCATTCTT TGTAACCTAA TTTTAAAAAG
28351 TTAATTATGC ACCTACTATG ATACGTCCAA AATGTTTTTA GGTGATGTGG
28401 ATATAGCGAA GAACAAGACA CACCCAGTGT CTTCTTCAT GGAGTCTATA
28451 TTCTTGGCAC TGTGTCCT GTGTGAAGTC CTAACATTAT TTTGCTTAAT
28501 GTTTTGGCAA GAGAGGCAAC ATTGGCTGGG CGTGATGGCT CATACCTGTA
28551 ATCCCAGCAC TTTGGGAGGC TGAGGTGGAT GGATCACCTG AGGTAGGGAG
28601 TTCAAGACCA GCCTGATAAC ATAGAGAAAC CCTGCCTCTC CTAAAAATAC
28651 AAAATTAGCC AGGCATGGTG GTGCGTGTCT GTAATCCCAG CTACTCTGGA
28701 GGCTGAGGCA GGAGAATCAC TTAAACCTGG GAGGCAGAGG TTGTGGTGAG
28751 CCGAGATTGT GCCATTGCAC TTGTACTCCA GCCTGGGCAA CAAGATTGAA
28801 ACTCCATCTC AAAAAAAAAA AACCAACAGG CAACATTCTG GGCTGAAACA
28851 AAGGTAATTC ATCTGGTAAC AATAGCAATA ACATAAATAG CAGTAATAAT
28901 TATACATTAT TGAGTTCCTA TTCTCTGCCA AAAATGGTTG ATAAGCACCT
28951 TTGATATGGC TTATTTTACC TAGTCCTCAT TATAACCTTA GAAGGTATAT
29001 TGTATCTGGT CAAAATTGAA AGAAGAAATT GAAACTCACA GAGGGTAAAT
29051 AATTAAAGTT CATAGCTAGT AAGTAGTACA GACAAACCCA AAAGCAGAGT
29101 TTCATGCTCA TAGTCACCAT AATGTATTCA GAAACTTTTA GGACTCATCA
29151 CAATATTAAA ATCATGGAAC TTGGAGCCAC AAAAAGTCAG ATTTAAGTCC
29201 AAACCCTGAC CCTGGGTAAT TTAACCTTTC TGGGTTTATG TAACATATCT
29251 ATAAAGTAGC AATAATAATA TTACCACCTC ATGCTGTTTT GTAAAAAGT
29301 AAATAAGATA ATGTATATTA AGGTATTTGG ATAGTGCCTA TAGATGTATA
29351 TATGCTACTT AATAGACAGT AATGTAATTA TTAACATGA CCTAAGATGT
29401 GGCACAGTGC AGGTAGCAGA AGTTCTATCA TTAATCATT ACAGATACTT
29451 ATTAAATTGC TTCAAACCCA TAAGGATAGA GGCAAGATGG AGGGGGAAGT
29501 CTAAGAAATT GATTGAGTCA ACATTTATAT AAATACTTAT CTACTGAGAG
29551 CTTCTTCACC TCAGGGTTTG GGTCACTTTA AATGCATCCT CCCTGACCTC
29601 CTCTGCCTGG CTACCTTTGG AACTCCAACC CATTCTGCAA GACCCAGTTA
29651 AAATGCTGCC CATTCTGAA GCTTTCTTAT TTTCTAAAGT AGGAAGAGAT
29701 TTCTCCCACC TTAGAACTCC TATAAACATC TGCAGACTAG TTCTAGGCAG
29751 CCTTTAACAA AATCCTCATG GGATCTTTGA AAATACAGAT TCCCAGGTCC
29801 AGCCTCCAGA GAATCTGATT CAGATAAGGC CAATGAATCT GAATTTAAAA
29851 ACATGTATTT GTGTGATTTT GATGGGTGGA CACACTTGAG AATCACGTCA
29901 GGACCATTTA TGTGGCTCTC AATTACATAT ACACTACTTT ATATTGCAGT
29951 TGTTTATTTA TGTTATATTG CAGTTATTTA TTTATGTTTC ATCTCTTTTC
30001 CTGAGAAATT ACCTTCCTGA TAATCCAATG CAGAGATAAA TTAAGAAAAT
30051 CTGTAGGAAA GAATAGATCA TCAAGTCCCT TGCAACATTC TTCTGAGGTT
30101 GTAATAATCT CCTCTAGGAT GCTTTGCTGG ATTTCCCTGG ACTAGGTTGT
30151 CTTTTCTGC TACTTTCTCC CATTACAGGT CTCCCTACGG CAGCACTGCT
30201 TATATCACTT GGAACCTGAA TCTATTTTGG TAAAAAATA GTTAAAAATT
30251 AAATTATCAG AAGGATATTG GGGATGCCTG CAGAGTAATC AAAATAGGAT
30301 CTATATTGTT ATAGAGCCAG GCACATTAAT GCCATCAGCT TTAGCCCTTT
30351 ATGTTGTGAT TTTACTTTAT TCCAAATGTC AGCTTTATCC TGTTGGATGT
30401 GCTGATCTTT TTTCTCTACA TTCAGCCAGT TCCATTCTCA TGTTCTGGAA
30451 GCTTGTGACA GAGGGGGAAT ATGCATTTCA AGATCAGAAG ATCCAGAGTG
30501 AAAATGATTG GAATGGCCTG AGTCACAGTT CCAATCCTAG AACAAGGCAT
30551 CTTGCTAGGG ATGTGAGAGA TGATAAGTGA CAGATACAGT GACAGCAAGT
30601 GGTTGATGGG ATCTGAGTTG TGAGAGAGGG TCTGTGAAAA ATGAAAGACC
30651 TGCATAAGAA GAGGAGAAGC AGAAATATGA ACATTGTTGT GAGTCAGGTC
30701 TTTACCCAAC TCTGTGCTGC TTATTCTACT TTTTGTGCA AGATTGATTA
30751 TGTGTGTTTA ATAGAATGCA GTAAAGAACA GTGTTGGAGG GCAGCTGTGG
30801 AGTCCAATTG AGTGGGACTC TACCACTCTG CCACTTACCT ACTTTGTGGC
30851 CTTGAGAAAG GTACTTAATT TCCCTGGGTT GCAGTTTGTT CACCTAAAAA
30901 CGTGGCAATA ATAGTAATAC TGTTTCAGAG TTGGCGCAAA ATTAGGATAA
30951 TATATGTAAC ATATTTAGAA TAATGATGGG TATTCCTTAT GTAAATGTTA

FIGURE 3J

31001	GATGTTAGCT	ACTGTGAATT	TTTCTGTTGT	TCCACTAGAC	TGTAGGACCC
31051	CTGAAGGCAG	GCAACCTTGG	GCTTCTTTCT	CCCAGCACCT	AGCACAATGG
31101	CTGTTACTTA	GTAAGCAGTC	AGTAATGGTG	TGTTGTTGTC	AGTGAACACA
31151	GACTGAGTTC	AGTGAGCAAT	GTCTTGGAAG	GCCTCTACTG	CACCTAGGAC
31201	TTTCAGCTAT	ACTGAGACAG	AAAAATGAAA	TCCTCTCTGG	ACTGGAAAGC
31251	AGAAGCCAGA	CATGTAGGCA	ACCAAAGTGT	AACTGTTTCC	ATGTCGAATT
31301	GACTTTGCCT	TTAGCGAATC	ATAGCACTGA	GGAGTGTAC	GTTTAAGCAG
31351	CAAATTTGTA	TAGCAAATTA	ACATGCCAAA	AAAGGCATGC	AAGACTTTTA
31401	CTTGATTTTT	TTCCCTCTCT	CTCTGGGGAA	TTTATCTTAT	TTGGGTCTTA
31451	TCTTGGAATT	TATCTTATCT	TGAACCTTAT	CAGACTGCAT	TGGTTTAATT
31501	TGCTATCAAC	TGGGGCTATA	TAGTGCCTGT	GAATTTAATG	TGTTGTATAT
31551	GTGAAATATT	TACCAAATAA	CCACATAACC	AAGATATGGA	GGACCTACTT
31601	TAAGAGGAGA	TTCTTGCAAA	GCACCTTAAA	AGCATACACT	CAATAATCAC
31651	AATGGCATGA	CTGCATACAG	GGAGATAATC	AGTTGTTTTA	ACTTTTAATT
31701	TAAGCAGTAG	CAGAATGACT	TTTTGGGAAC	TTAGGAATTT	GGAAACCTTT
31751	TTATTCTATG	TATTGAATAT	CAACTATGTA	ATTTAGTCTA	AGGTTATATG
31801	CTAGAAACAT	TTCAAAAACG	AAAGCAGCAG	CAATGACATC	AAAAATGCAT
31851	GTCAAAAAGCA	AATGGTTTTA	AATAGAAATA	CATCATTTTA	ACAATCTTGA
31901	AGTTTAAAAG	ATCCTATAAA	AATCACAAAC	CCAGAAGGAC	AAACAAGAAA
31951	AGATTGATAC	ATTAACTAC	ATAAAATTTA	AAACTACATT	ACTGAAAAAA
32001	AATCTGAGAC	AGGGTCTCTG	TCACCCAGGC	TGGGGTGCAG	TGGTGCGATC
32051	ACAGCTTACT	GCAGCCTTGA	CTTCCCAGGC	TTAAGGGCTC	ATGTAATCCT
32101	CCCATCTTAG	CCTCCCAAGT	AGATGGGACC	ACAGGCATGC	ATCACCACAC
32151	TCGACTAATG	TTTAATTTTT	TTGTTGTTGA	GACAGTCTCC	CTATGTTGCT
32201	CAGGCTGGTC	TCTAACTCCT	GGGCTCAAGT	GATTCTCCTG	CCTCAGCCTC
32251	TCAAAGTGCT	AGAATTACAG	GTATGAACCA	CTGAGCCTGG	CTTTAAAAGT
32301	TTTTAAAATC	AAAAGCCAAA	TGGACAACCT	AGAAAAAATA	CTCCTGAGAT
32351	ATGTTAAACA	GAGTTAATTT	ACTTGCCATT	TTTAAGTGTG	CTTACATATC
32401	AAAAAATCTA	ATAACTCATT	AAAGATATGT	AAAATATATA	CAAAGGCAGT
32451	TTGCTGAAAA	AATACACATA	TAAATATATG	CAGCTTCACT	CAGCATTCAA
32501	GAAATAAAGT	AAATCAATAA	TTCAATCTTT	TTCACTTGTC	AGATGAAGAA
32551	CAGTTAATGT	AGTAGTGTTG	GCAAGGTGGT	GGACAAAAAG	TTATTTTTAT
32601	ATGTTTTTGA	TATCAAGAAG	ATTTGATGCA	ACATCTTTGA	AGAGCCAGTT
32651	AATAATATCT	GTAAAATTAG	AAAATTAACA	TATTCTTTGC	CCAGCATTTC
32701	TACTTTTATC	AACTTTGCTT	GTAAACAGAC	ACAGAAGCCC	ATCAAGAATG
32751	CTCAAGGTAG	TTTTGGTAAT	CATAGATAAT	TTTTTTTTTT	TTTTGACGGT
32801	GTCTTGCTCT	GTCACCCAGG	CTGGAGTGCA	ATGGCACAAT	CTTGGCTCAC
32851	TGCAATGTCC	GCCTCCTGGG	TTCAAGGGTG	TTGCAGGAAG	TCAGGGACCC
32901	CAAACGGAGG	GACTGGCTAA	AACCATGGCA	GAAGAACATG	GACTGTGAAG
32951	ATTTTCATGA	CATTTATTAG	ATCCCCCAAA	TTAATACTTT	TATAATTTCT
33001	TATGCCTGTC	TTTACTGCAA	TCTCTGANNN	NNNNNNNNNN	NNNNNNNNNN
33051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
33751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNACTCCCT	CCCCTTTTGA
33801	AAATCCCTAA	TAAAAACTTG	CTGGTTTTAC	AGCTCGGGGG	CATCACGGAA
33851	CCTACCGACA	TGTGATGTCT	CCCCCAGATG	TCCAGCCTTA	AAATTTCTCT
33901	CTTTTGTACT	CTGTCCCTTT	ATTTTTCAAC	GCAGCTGATG	CTTAGGGAAA
33951	ATAGAAAAGA	ACCTACGTGA	CTATCAGGGG	CAGGTTCCCC	GACACAAGGG
34001	ATTTTCCTCC	CTCAGCCTCC	TGAGTAGCTG	GGATTATAGG	CACACACCAC
34051	CACACCCGGC	TAATTTTTGT	ATTTTGTAGTA	GAGACTGGGT	TTCAACCATGT

FIGURE 3K

34101 TGGCCAGGGT GGTCTCAAAC TCCTGACCTC TGGTCATCCA CCCGCCTCAG
34151 CCTCCCAAAG TGCTGGGATT ACAGGCGTTA GCCACTGCAC TCAGCAATCA
34201 CAGATAATTA AACCATCTTT CAAAATCCAT CAATAAGTTA AATATTTTAT
34251 GGTACATTTA CACAATAAAA TACAAATTAG CTACTTAAAA ATAATGAGAT
34301 CTATATGTGA TGGTATGAAT GGACAGAGGC AATGTGTTAT ACAGAAAGGG
34351 TTTAACAATG TATGCTCCCA TTGGAATGAT AGTATGTTGC TATTGCTGTT
34401 AGGAAGGAGT ACATATATGC AGAGAGAATC TCTTAAAGGG TACACAAGGA
34451 TTTGTTAATA ATGGTTGCTT CATGGAAGTG GAACTGCAAA CTTGGAAGAG
34501 GAAGATAGCT TAGTTTTTAC TGAATAATTG TTGTACTTAA AAAAATTTGT
34551 AATTTTTTAGT TTTTCAAGTGA CCAGATATTT TGCTTCTGGT TTATAATGTC
34601 TCATCTTCAA AGTCAGCTGA GTTAGGTTTA ATTAGCTCCA TTTTACAGAC
34651 AGAGACATTG TTATTTGAAA GATTGAGTAA CTAGTCTAAG GTTACACAGC
34701 TGGTGTCTCT GTTGCCTGTT CAGTAGAAAG GTTTACATAA ACAGCAAGGT
34751 GTGCTGTTCT CAATAGACTC ACTTATGTTT ATGATTTGGT ACTTGCTCAA
34801 GCTGGAATCA ATTTTTAGAA AAAATAAAAT CTTTTGCAA GATTTTTACC
34851 TCAAAAATAG AAAAAAGGG CATTCTGCC TTACCTTCTA CAAGGGTCTT
34901 CTCTGAAATT CCAAGCATCA GGGTGTATA ACAGACTCTA AAAAGGGTTT
34951 CCTTTTTTCT TTCCTTTAAC ATTGCTTATT GCACAGCATA TTGAGACAGA
35001 GAAGATGGTA AGTGAAATAA AACAAAGGAA ATAAAAAGTA TCATCACTGG
35051 GTTTCAGAAT CAGCATGGTT TATGCTAAGG GAAAGACTTG GAAACCTTGA
35101 TTCAACATAT AATTCTAAAA AGAGACAGGA AGAAATCCCA CCTTGTTTCC
35151 TCTGATTCTA CCTTTGGGAT GGGTAGGTAT GTTATACAAT AAGAATAACA
35201 TTGAGATGAC TGCTATAAAA ATAGTGTTTA AGAGCCTGGG TCCAGAATGA
35251 GAAAGGTGGA TATTGAATTT ACCTGAGTGC AACTAGGCAG ACTCAAGTGA
35301 GTTGATTTTA CCCACTCCTC CACTCAAATA CTGGGTATGG CTTTGCAAAA
35351 ACATTCAACC AGTTATCCAC ATAGTTGGTC TTAACCTTCC ATGTGACTAT
35401 AATGAATATA AACTTGCTAA TGAGCAGAGT GTGATTTTAG TGTTTAAACT
35451 ATTTTTTCCC GAATAATAGT TCCTAGATGC AGTTAATGAG CCTTATTGGG
35501 TACCCACACA AAGGAGATAG AATTGTCTGT TGGACTTTTT GAAAACTTT
35551 CTTGGTTTTA AAAAAGGTAC ATTTCTAAAG GATTTTTATG TGTAGTTTTG
35601 ACTAAACAAG TCTTTGCCTT ACTTTCTGTT TTTAAATCT AACCTCAACA
35651 TTAATATGTC ACTATACTGG TTATAACCAT AACAAATTAT TTCATCTCTC
35701 TGAGCCTGAG TACCCTCAAC TGTATACACT ATAAGGATGT GAAGATAGAA
35751 AGTGACATAA AAATGAAACA TGTAAGTACC ACCCTCATAA ACAGATCCCT
35801 CACATCATATA GAATGTCTGT GCCTGGTTGA TTAGTGAAGG AATGTGTACT
35851 CACCCAAAAG AAAAAGTCTG AAATAAGTAC TTTTAGATAT TTAATTTTTC
35901 AATATTCCAA GTAATTATCA CAACATTAAG GTGCATTTCAG CTTTGTGTGT
35951 TAACGTGGTA TACCTCCAGG CAACTTTTAG GATACTGTAC AGATACAATG
36001 GCTGTGAAGG CTGGGATGAA AAGACCTGTG CGAAGCAGGA CTGAGGCACT
36051 TAAGGAAGGC CTCAGAGTTA CATCTCCTTT GCCTGTTTTT TTGCAGGCCA
36101 CATACCCTAG CCCAGCCCTG TCAGCATGAG TGAGAACCAG GCTCTGCCTT
36151 TGCCCACTAC AAACCACTAC CTTCAAGGCC CCACAAAGAC CCAGTGTCTC
36201 CAGACGGTCT TTCTGTCTTC TTAACACTCA GAGCTCCATG AACCAGAATG
36251 AAAGTTTTGG AACATGATCC AAGTAAAAGA CTCAAGAAGT AAACACCACT
36301 AAGGTAACT TTGCTTTAGA GGTTAGAGAA AACACTGCAA GGACACCACA
36351 CCAGAGACTA TGAAAACCCC AAATGTATTG AAATGATGCT GATTCCATTT
36401 ACCTCCATAT TGCCTGATAA TACCCAGGTG CTACCATGGC AGCTTAAGGT
36451 GGTATTTGCT GGGAGCTATG ATACTCTTTA AGAAGTAATA GCACTACTAG
36501 TAAAAGCAGT TAGTTCCAGG CAATATTCTA TGCACATGAC CCATTTTCATC
36551 TTCTTATAAA CCTCATGAAG AATATATTAT TTTCATCCTC ATTTTATAGA
36601 TGCAGAAAGG GAAGCATAGA CGTAAATTTT CAAGATTACA CAGCTATTTA
36651 TTGTTGGAAC TGAGATTTGA ATTCAGGTTG TCTGTCTTCA GGGACTGTGC
36701 TCTTAATCTC AGTGGTCATC AAACCTTTCT GTAAAGAGCC ATCCAGTAAA
36751 TATTGTGGGT TTATATACAT TCTCTATTGC ATATCCATTG GTTTTCAAAA
36801 ATAATCCTAT ACAAATTCAA AAACCATTTT TAGCTCATAG ACTACACAAA
36851 AACAGATTGC AAGTCCAGTT TGGCATTTAC TGTTCTTATT GATCAAGGGT
36901 TTAAGAACAT AGTGAGTACA CTATTCCACA TTCCCCTTAG GCAAATCCTG
36951 TATGTTTATA GACTGTGTTG ATTTCTGTTG ACAAATAAAT CCACAATTCT
37001 GACTTCATCT CTCTCTCTCT CTCTCTTTCT GATTTTGTTC GAATTTATGA
37051 GGTTTAGTTG CATTTTCAAG TTAGTCTTCC TGCTAACGAG TGATTCTTTT
37101 GTTGAACATT TAAAAAGGGA CTGTCAGGAT TGAATAAGAG AACCTCTTCC
37151 AGTCACTTTT TTTTTTGAGA AAGGATCTCA CCTGTTGCCC AGGCTGGTGT

FIGURE 3L

37201	GCAGTGGTGC	AATCACAGAT	AACTGCAGCC	TCAACCTCTT	AGGTTCAAGT
37251	TCCCCCTGCC	TCAATTTCTG	AGTAGCTGGG	ACTACAGATG	TGCACCACCA
37301	TGCCTAGCAA	ATTTTAAATT	TTTTGTAGAG	ATGGGGCCTC	ACTACATTAC
37351	CCAAGCTAGT	CTTGAACCTC	TGGGCTCAAG	CAATGCTCCT	GCCTCGGCCT
37401	CCCAAAGTGC	TGGGATTACA	GGTGTGAGTG	ACTGCATCCA	GCCTCTTATA
37451	GTCACTTTTA	ATCTATCATT	GGCTTTCCCA	TTAGATTGTA	CTGTTATACA
37501	AGGAAGTGAC	TTCAGACAGT	ATGGCACTAG	ACTAGAGGCT	GTGTTTTTCT
37551	TTAATAAAGG	CATAAATGAG	ATGAATTGCT	CTAAGGCTTT	AGGCTTGTCC
37601	CTTTTCTGAG	AAGTGACCTT	TGGGAGGTCA	CATTTAGTTA	AAGCAGTTTT
37651	GCTAGTATAA	ATTTACCAGG	ATCCTGACAT	GTAATCCTGT	ATCATTTTCA
37701	GTAAGGTTAA	AATGGTATAT	GAAAGGAGGT	GGTTCACGAA	ATGGATTAAT
37751	ATCAACATGG	AACTTCATGC	TTTCTAGGTA	CCTGCTGCAT	CCTTGGAGAT
37801	TCAAAATGTC	ATCATGGCAT	TCTAGGCTAG	ACTGGCAGTG	GAGAAATCAC
37851	TGTGAGTTAT	TGGATTTGCT	CAAGATAAAA	TCTTGAATTT	GCAAATAAAT
37901	CCTGGTCAGC	TTTTTTTAAAC	ACTCTTGTGG	TAAATAATAC	ACAACTCAGA
37951	TTCATGTAAT	GGGTGTAAGA	AAATCATTGC	TTTGGTTATT	TCAGTATGAA
38001	ACTCAAGAGA	AACTTACTG	AAGTGTTTTT	AAAATTATTC	TGACCACAAC
38051	CCAAGGTAAA	ACATAAGCCA	AAAAACATAT	CATGACATAG	TAAATGAAGC
38101	CAGGATTGTA	TATATATGTC	TACTCAAGTA	TATGAAATGG	AAACAACAGT
38151	TTCAGAGGCA	GTAATATGCT	TACTACATTT	GAGGCATTTT	TGGTATTTTC
38201	TATTCTATTT	AATTAAATTT	TTAGTACTTC	TTATTTTAGC	TACATTTATT
38251	TCATAACTCA	TTAATGGGTT	TTGACTCACA	GCTCAAAAAC	ACTGCCTTAG
38301	AGAATCCAAA	TGTTCACACT	ATCCATATTT	ATAAGAAGTA	ATTGTTCTGG
38351	GGTTCCTGTG	TATTCTTATA	GCTTAGTTTG	ATTTATTTGC	TAAGACCTGG
38401	CTAAGTGAGA	ACTGCAAAGA	GTTATGCCTT	CAACTACCTA	AGCCAGGAAT
38451	TTTCTGAGGT	GGCAGGGGAA	CCAGGGTGAG	CAGAAGGACA	TATCATCCCC
38501	ACCCTCATT	AGCTTATGCT	ATAGTGGATG	AAATAAACTC	AGAAGTCAAG
38551	GAGTTTCAGA	AGAGAAGTCA	TTCCCTTGAG	TAAGTATGTT	AAGTACGTAA
38601	ACAGCTTTAG	TAGTGCTTTC	TTAGTACAAG	GTGTTTTCTT	CTGATCTAGG
38651	AGAGTCAGTC	CAATTTTTTT	CTTTTGAGAA	AATGGAGGCT	CAAAGAGTCT
38701	GTCATTTATC	TCCAGTCTCT	TCATTATTTT	GAGTCCAAGT	ACAGGATTAT
38751	TTGTAATATA	CATGCTGCCT	CACATGACTA	AGTGGGTTTT	GTGATAGAAA
38801	GGGAATTTGG	AGTTGAGAAG	AGAAAGTGAT	GATTAAGTCA	CATCATTAAT
38851	ATGTTTGACT	CTCAGATATC	TTGGAAAGAC	TTTGAAGGCA	CTCTAGCCAA
38901	ACTTTTTCCT	TCAGAAGGAG	CTTATCTAAT	TATTCTAGAT	AATAGAGAAA
38951	AACTAGGTCT	TTTAAAGAGA	CAAATTATAT	ACCATTTAGT	GTTTCACAAT
39001	ATTTTCTGAA	TAAACTTAAA	ATCCCTTATT	TGGAATTTAA	CTCATCTAAA
39051	TCCTTATTTT	AAAAACCAGG	AAACAGAGTC	AAACATTTTC	TCAGTTATCA
39101	AGGCAGTAAA	CCAAAGATTG	TCACCTGCAC	AGGAGAATCT	ATGATTTGTT
39151	CTTCTCATCA	TTATACATTT	CACGAGCATT	GACTCAAAAA	ACCATGCTAC
39201	CTATAAACTA	ATCAACAATT	GCTTCTTCTA	GGGACTGAAA	TTTTAAAATT
39251	TCAGACGTGG	AGGATCGACT	CTACTTCAAA	GCAAAATTCA	GTGGACTTCT
39301	GCACACATAT	CCATTCTAAT	CTGTTACAAG	TCTGCACTTT	GGAGATTAGT
39351	TCATGCTACA	CACTTAGAGG	TGTAATATTT	TCCTACTTGG	GAAAATTGAA
39401	ATTACTTAGA	TACAAAAGAG	TGGTTGTAGT	AAGAAAATAG	GCAAGGAGAA
39451	CATTTTAAAG	TGCTGATCCT	CGGTAAAGCC	ATACATAGGA	TGCACCTGGG
39501	AGCAGATCTT	TCTGAAGTCA	TTCTGTGCTC	AGAGATGTTT	CTCCTTACCT
39551	TGCTGCCTAT	GTCAAATTCT	CTGTGATATG	TTCTTAGAGC	CCCATGACCT
39601	CTCTTCTTAA	CTTGCAGTGG	GAGCTTGAAT	TTTCCATTTA	TTTTTGTGAC
39651	CATTTAGTCT	ATAAGAGTCT	CCGTCTTTAC	AGGGCCCTCA	CCTGACTACA
39701	GACTCCATAA	AGGCAGAGAT	TCTATTTTAA	CTCTATTATT	ACTGTATTCC
39751	CAGCACTAAG	CACTAGGATT	AATACATAGT	AAGTGTTCAA	CAGATGTTTA
39801	CTGGATGATT	AGATTGGCAT	TTTAAGGTAG	TCTGAGATCA	CGTTTTAGAC
39851	AAGATACTTC	AGTTTAGTCC	AATCTTTATT	ATTTATTAGC	TACTAAAGAG
39901	AAATTGATAA	TACTCATGA	TATTCTTCTT	TTTTGTTTTA	CAGTCAACTT
39951	TGACCACTTT	GAAATTTTGC	GAGCCATTGG	GAAAGGCAGT	TTTGGGAAGG
40001	TGAGAACAAC	TTGAAATGAT	TAACCACCAG	CAGGGTTATG	TAGCCCAGGG
40051	AACAGAGGGT	CCAGAAATGT	TCACATTATT	GAGTTGCTGG	GACCACAAGG
40101	AAAGATAATT	AAGTGAAAAT	GTTTTTGTA	TGGATTTTTA	TAAAATTGTC
40151	ACCACAGTTT	AAGAAAAGCG	TGTGACAGGC	AGCTACATAA	TGAACATATA
40201	CTGTTGTCAG	AATAATCTCA	TTAAACTCAA	ATCTGTTTAC	TCTCAGTAAA
40251	CTTTAAGGCT	TTTCTCTCTA	CCCTAAAGGA	GATGAAGATT	TCAGAATCAT

FIGURE 3M

40301 T TTCAGATTC T ACCAGCTGT A TGCCCAGTA A TAGTTATCT T GTTTATGGA
40351 A GAGTTACTT A TTTTCATGT G GGAAAGAAG T CATCCGATT T CTATTTGTT
40401 T CCTCATTTG T CTAATGTTT T TATCTTAAG A AAAATACAT A TTCAGTTTA
40451 A TTTTTTTTG C AAGAACTT C TGATTCAA A CCTTGATTA C TAGTTTCTC
40501 A ATGGAGACG T ACTTTAAGA G AATAATATT T CATATAAAA C TTGCATTTT
40551 A AAATCATTT T CTGTTTACT T TTTTCAGGC A TTATACAGAC C CTCTAAAGAA
40601 A TTTCAAAAA C ATGGACATC A ATTTTAGTG T TTTTCCAGT C CTTAAAGTC
40651 C TTTTGGTT A ATATCATGT T GGGTTGTAA A ACAGAAATTC T TTGACAGT
40701 A TTATTCAGC T TGACAGTTC A GTCATGTCT A TTTTCAGTCA C TCAAAGCAG
40751 G ATTAAGGAT T TACTTGTG T ATTGGAATAT T CCTGACATG G AGGCAGCTA
40801 T TTTACCAA A ATGCTGTCT T AAAAGCCCA A AAAGCAATA C CAGGCAAAA
40851 T TGTTTGAGA A AAAAGAGAT C CAGAATTG A AACTGGTGCA T AGAAAAGAA
40901 A ATGAAATTT T TAATCTAAA A TCAGAGCTA A AGTGGGAGCT T TTAACATCA
40951 T ATAATTTGC A AATGTTAAG G ATCCAAGCC A ACAGCAAAGA A CATGTCTTG
41001 T TCTGTCTCT C ATCACCATG A ATCCATTATC T CCAATCA C CTCTCTACT
41051 C GGGTTTTCA C CATTAGGTC T GCATTGTAC A AGAAGAATGA T ACCAAGAAG
41101 A TGACGCAA T GAAGTACAT G AATAACAA A AAGTGCCTGG A AGCGCAATGA
41151 A GTGAGAAAT G TCTTCAAGG A AACTCCAGAT C ATGCAGGGT C TGAGCACC
41201 C TTTCTGGT T AATTTGTGG T GAGTAATT T TACTGGACCT C TGAATAGAG
41251 A CACTCCTGT T ATCGGTGGG C TAGGGGAGG T CCCCCAATG C CTCTGGGAC
41301 C TCAGCCCTG G CTGGTATCC A AGGCTCTTG A CACAATTGCA A AGAAAGAGTT
41351 C AAGGATGAG T TGGAACA A GTGAAAGTAC A AGAGATTTAT T TGCAAAGTGG
41401 A AAAGTACAC A CTCAAGAGA G GGGAGCATG G GTGAACTCC A AGCGAATGTC
41451 A TGTAAGGGG G GGTGAGG C TGCTGCCAT A AATGGGTTT C TTTAACCAAG
41501 G GGTGAAACA T TCATGATGA T TCTGAAAA A AAGATGGAGA T TTTCTTGAA
41551 C TGTGGTGCC A GCTATTTT T ACACCAAAT A TGAATGTTCC T TGGAAGTGC
41601 A TGGTGCTGG T GGGTGTATG A ATTTAGTATG T TTAATGAGTG T ATGATGAGG
41651 T CCTAGGTGA A ACCTAGGTC A AATCCAGCA C CAATGGAGAG G GACCCACAGA
41701 C TCTCTGAAG G AAACGACTG C CTCCTGCAGG A ACCCAGGCA C CTCCCCAAA
41751 A CTGTGAGTA C CCAACTGT G GGAGGTGGG A AAGAGAGACC C CTCCTCTCC
41801 A AACACACAC C CCACTGGA G GAAGCTGAAG T GTCTGTTTG C TGGAAGATT
41851 T CTGACTTTA C CTGGAGCTG A AGTGGACTTG A AAGAGCCCAG T TGAAATACAC
41901 G GGGAGAAGA A AGCAGCAGAA A AGGCCCTGGG A AGCTTGCTGG T GTCCACAAGC
41951 A AGCCATTCC T GCCTGGCAC C CACAGGGATC A CAATGGGAGA G GGAGCGGGG
42001 T AAAATTCCA T AGGGAGAAG G CAAATCTCTA G GCTGAACTTG T GTGACAATT
42051 G AACAGGGTG A AGAAAGCGC C TGGCCAGAAC T CAGGAGAGG G GCACAAATCC
42101 A GTGTGCAGA C TCCGGGGGC A AGGGGATAAA C CCAAGCTCTT T TTATTTCCA
42151 G CTGGGAGCG G GAGCCTGG G GGCAGGTTT C CAAGCAGGTA T TTGCTTCTC
42201 A CTTAGAAAC A AACTGGGAG C CTGTGTTGG C GGGGAGGGG G GGTGGGGAT
42251 G GGGGAGGGG G GGTGGTGGA A AGCACGGTGG G GAGTGAGACC G GGCCCTTCG
42301 T TTTTCATGG A AGCTGGGTGA G GGCCTGTGAC T TGCCAGCTT T TCCCCACTTC
42351 C TGACAATCT G CATGTTTCT T GCAGAGACAG C CATAATCCT C CTAGGTACA
42401 C AACTCCAGT G ACCTGGGAA T CCCCACCCC A ATTCCCCACA G GCAGCAGCAG
42451 C AGCAAGGCC C ACCCAAAGG A GTCTGAGCT C AGAGACACC T AGCCCTGCC
42501 C CCACCTGAT G GTCCTTCT C ACTACTCTG T GTATCGGAA A ACAAAGGGCA
42551 T ATAATCTTG G GAGTTCTAG G GGCCTGCCC A ACTGCCAGT T TCTCCCCATA
42601 A ATACCAAAG C TGATGCTCT C TGGAAAAGCA C CCACCTCCT G GCAGGAGGAC
42651 A ACAGCACAA A AATAGAATA T TTAACCAAAG C TAAGAACCC T TTACAGAGTC
42701 C ATTGTACTC C CTGCCACCT C CCACCAGAAT A AGGCACTGG T ATCCACAGCT
42751 G AGAGACTCA T AGATGGTTC A ACATCACAGG A ACTCTGTGCA G GACGACTTCC
42801 A GTACCAGCC T GGAGCTGGG T TAGGCTAGCT G GGGTGGCTAG A ACCCAGAATA
42851 G AGATAACAA T CACTGCAGT T CAGCTCACA A AGAAACCATA T TCCATAGGAA
42901 A AGGAGGAGAG T ACTACATCA A AAGGAACACC C AGTGGGACG A AAAGAGTCTG
42951 A ACAAGACTT T CCTCTGAA A AGAGCCTACC C CAAGTGAGAA G GGAACAGTA
43001 A ATATGACAA A CAAGGCTCT T TGATGCCCC C CAAAATCAC A ACTAGTTCAC
43051 C AGCAATGGA T CCAAACCAA G AAGAAATCC C TGATTTACC T TGAAAAAGAA
43101 T TCAGGAGGT T AGCTATTAA G GCTAATCAGG G GAGGAACCAG A AGAAAGGTGA
43151 A GCTCAGTGC A AAGGGAATCC A AAAATATGAT A ACAAGAAGTG A AAGGGAGAAA
43201 T ATTCAAGCA A ATAGATAGC T TAAAGAAAA A AACAATACAA A ATTCAGGAA
43251 A CTTTAGACA C ACTTTAAAA A TTGCAAAAT G CTCTAGAAA G GTGTCAGCA
43301 T AGAATTGAA C AAGTAGAAG A AAAGAAATTC A AGAGCTCGAA G GACAAAGTCT
43351 T CAAATTAAC C CAATCAAAC A AAAGACAAAG C AAAAAGAAT A AAGAAAATAT

FIGURE 3N

43401 AAACAAAACCT CCCAAGAAGT CTGATATTAT GTTAAATGAC CAAACCTAAG
43451 AATAATGGGT GTCCCTGAGG AAGAAGAGAA TTTTAAAAGC TTGGAAAACA
43501 TATCTGAGGG AATAATTGAG GAAAACCTCC CCGGCCTTGC TAGAAATCTA
43551 GACATCCAAA TACAAGAAGC ACAAAAAACA CCTGGGTAAT TCATCGCAAA
43601 AAGGTATTTG CTTAGGCACA CTGTATCAG ATTATCCAAA GTTAAGATGA
43651 AGGAAAGAAT CTTAAGAGAT ATGAGACAGA AGCACCAGGA AACCTACAAA
43701 GGAAAACCTA TTAGATTAAAC AGCAGATTTT TCAGCAGAAA CCCTACAAGC
43751 TAGAAGGGAT TGGAGCCCTA TCTCTGGCCT CCTCAAAAACA ATTATTAGCC
43801 AAGAATTTTG TATCCAGTGA AACTAAGCAT CATATATGAA GGAAAGATAC
43851 AGTCATTTTC AGACAAACAA ATGCTGAGAG AAATTGCCAT TACCAAGTCA
43901 CCACTACAAG AACCGCTAAA AGGAGCTCTA AATCTTAAAA CAAATCCTGG
43951 AAACACATCA AAATGGAACC TCTTTAAAGC ATAAATCACA GAGGATCTAC
44001 AAAATAAAAA TACAAGTTAA AAAGCAAAAA CAAAACCAAA AAAATCTGCA
44051 GGACCCAGGA GACCACCCCC AAAAAAATGT GAGTGCTCCA ACTGTGGAAG
44101 TAGGAAAGGA AGAGCATCCT TTCCTGAACA CACACCCCA CTGGAGAAGC
44151 TGAAGGTCTG TTTGTGGGAA GAACAGCTTT AGCTCTTTT TGGTTTTTTG
44201 GAAAAAAACC CAAAGTACAC AGGCAACAAA GAGCATGATG AATGCCAACG
44251 GTACCCTCAC ATTTCAATAC TAACATTGGA ATGTAAATGG CCTAAATGCT
44301 CCACTTAAAA GATACAGAAT CACAGAATGG ATAAGAACTC ACCAACCTAC
44351 TATGTGCTGC CTTCAGGAGA CTCACCTAGT ACATAAGTAC TCACATAAAC
44401 ATAAAGTAAA GGTGTGGGGA AAGGAATTTT ATGCAAATGG ACACCAAAAG
44451 CGAGGAGGGG TAGCTATTCT TATATCAGAC AAAACAACT TTAAAGTAAC
44501 AGCAGTTAAA AGAGAGACAA AGAGGGACAT TATATAATGG TAAAAGGCCT
44551 TGTTC AACAG GAAAATGTCA CAATCCTAAA CATATAAGCA CCTAACACTG
44601 GAGCTCCCAA ATTTATAAAA CAATTACTAA TTGACCTAAG AAATGAGACA
44651 GACAGCAACA CAATAATAGT GAAGGATTTT AATACTCCAC TGACAGCACT
44701 AGACAGGTCA TCAAGAGAGA AAGTCAACAA AGAAACAATG GATTTAACT
44751 ATACCTTGAA ACAAATGGAT TTAACAGATA TATACAGAAC ATTTCATCCA
44801 ACAACTGCAG AATACACATT CTATTCAACA GAGCATGGAA GTTTCTCCAA
44851 GATAGACCAT ATGATAGGCC ATATAATGAG CCTCAATAAA TTAAAGAATA
44901 TTCATATTAT ATCAACATTC TCTCAGACCA CAGTGGAATA AAAGTGGAAG
44951 TGAAGTCCAA AAGGAACTT CAAAACCATG CAAATACATG GAAATTAAT
45001 AACCTGCTCC TGAATGGCAT TGGGTCAAAA ACAAATCAA GATGAAAATT
45051 TAAAAATTCT TCAAAGTAA TGACAATAAT GACACAACCT ATCAAAACCT
45101 CTAGGATACA GCAAAGGCGG TGCTAAAAGC AAAGTTGATA GCCCTAAACG
45151 CCCACATTGA AAAGACTGAA AGAGCACAAA CTGACACTCT AAGGTCACAC
45201 CTGAAGGGAC TAGAGAAACA AGAATAAACC AAACCCAAAC CCGGCAGAAG
45251 AAAGGAAATA ACCAAGATCA AAGCAGAACT AAATGAAATT GAAACAAAAA
45301 AAAAAAAGA AAGATAAATA AAACAAAAAG ATGGTTCTTT GAAAAGATAA
45351 ACAAATTTGG TAGACTATTG GCAAGATTAA CCAAGAAAAC AAGGGAGAAA
45401 ATCTAAATAA CCTCACAAG AAATGAAACA AGAGATATTA CAACTGACAC
45451 CACTGAAATA CAAAAGATCA TTCAAGGCTA CTATGAACAC CTTTATGCAC
45501 ATAACTAGA AAACCTAGAA GATATGGATA AATTCCTGGA AAAATATAAC
45551 TCTCCTAGCT TAAATCAGGA AGAATTAAAT ACCCTGAACA GATCAATAGC
45601 AAGCAGCGAG ATTGAAACGG TAATTTAAAA ATTACCAAGA AAAATGCCCA
45651 GGACCAGATG GATTCACAGC AGAATTATAT CAGACATTCA AAGAAGAATT
45701 GGTACCAATT CTTTGTGACAC TAAGGAAACC TCCCCTAATT CATCCTATGA
45751 AGCCAGCATC ACCCTAATAC CAAAACCATG AAAGAACATA ACCTAAAAAG
45801 AAAACTGCAG ACCAATATCA TTGATGAACA CAGATGCTGA AATCCTTAAC
45851 AAAATACTAG CTAAGTGAAT CCAACAGCAT ATCAAAAAGA TAATCCACCA
45901 TGATCAAGTG GGTTCATAT CAGGGATGCA GGAATGGCTT AACATACACA
45951 AGTCAATAAA TGTGACACAC CACATAAACA GAATTTTTTA AAAAATCACA
46001 TGATCATCTC AGTAGGTGCA GAAAAAGCAT TCAACAAAAT CCAGCATCCT
46051 TTTATGATTA AAACCTCAG CAAAATCAGC ATACAAGGGA CATAGGCCTT
46101 AATGTAATAA AAGCCATCTA TGACAAACCC ACAGCCAACA TAAACTGAA
46151 CACATTCCTT CTGAGAACCA GAATGAGACA AGTATGCCCA CTCTCACTGC
46201 TCCTCTTCAA TGTAAGTACTG GAAGTCCTAG CCAGAGCAAT AAGACAAGAG
46251 AAAGAAATAA AGGTCATCTA AATCAGTAAA GAGGAAGTCA AACTGTCACT
46301 GCTTATTGGC GATATGATCG TTTAACTTGA AAACCTAAG GACTCTTCCA
46351 GAAAGCTCCT AGAACTGATA AAAGAATTCA GCAAAGTTTC CGGATACAAG
46401 ATTAATGTAC ACAAATCAGT AGCTCTCCTA TACACCAACA GCAACCAAGT
46451 AGAGAACCAA ATCAAGAACT CAATCCCTTT TACAATAGCT GCAAAAAAAA

FIGURE 30

46501	CAAAACAAAA	CAAGACAAAA	CAAAAAAACA	AAAAAAAACA	AATACTTAGG
46551	AATATACTTA	ACCAAGGAGT	AGAAAGACCT	CTACAAGGGA	AAATTACAAA
46601	ACACTGCTGG	AAGGAATCAT	AGATGACACA	AACAAATGGA	AACATGTCCC
46651	ATGCTCATGG	ATGAGTAAAA	TCAGTATTGT	GAAAAATAAC	CATACTGCCA
46701	AAAGCAATCT	ATAAATTCAA	TGCAATTTCC	ATCAAAATAC	CACCATCATT
46751	CTTCACAGAA	TTAGAAAAAA	CAATTCTAAA	ATTCATATGG	AACCAAAAAA
46801	GAACCTGCAT	AGCCAAAGCA	AGACTAAGCA	AAAAGATCAA	ATCTGGAGGC
46851	ATCACACTAC	CTGATTTCAA	ACTATACCAT	AAGCCACAG	TCACCAAAAC
46901	AGCATGGTAC	TGGTACAAAA	ATAGGCACAT	AGACCAATGG	AACAGAATAG
46951	AGAACACAGA	AATAAACTCA	AATACTTACA	GCCAACTGAT	CTTTGATAAA
47001	GCAAAATGAAA	ACATAAAGTG	GGAAAAGGAC	ACCCTTTTCA	ACAAATGGTG
47051	CTGGGATAAT	TGAATAGCCA	CAAGTAGGAG	AATGAAACTG	GATCGTCATC
47101	TCTCACCTTA	TACAAAAATC	AACTGAAGAT	GGATTAAGGA	CTTAAACCTA
47151	AGACCTGAAA	CTATAAAAT	TCTAGAAGAT	AACATTGGAA	AAACCCTTCT
47201	AGACATTGGC	TTAAGCAAGG	GTTTCATGAC	CAAGAACCCA	AAAGCAAATG
47251	CAATAAAAC	AAAGATAAAT	TGCTGGTACC	TAATTAAACT	AAAGAGCTTT
47301	TGCATGGCAA	ACGGAAGTCA	GCAAACAGCC	CACAGAGTGG	AAGAAAATCT
47351	TCACAATCTA	TACATCTGAC	AAAGGATGAA	TATCCAGAAT	CCTACAATGA
47401	ACTCAAGTAA	ATCAGTAAGG	AAAAAACAAT	CCTATCAAAA	AGTGGGCTAA
47451	GGACATGAAT	AGACAGTTCT	CAAAAGAAGA	TATACAAATG	GCCAGCAAAC
47501	ATATGAAAAA	ATGCTCAACA	TCACTAATGA	TCAGGGAAAT	GCAAATCAAA
47551	ACCATAATGT	GATTCCACCT	TACTCCTGCA	AGAATGGTTA	TAATAAAAAA
47601	AAAATCAAAA	AACAGCAGAT	GTTGGCATGG	ATGCAGTGAA	CAGGGAACAC
47651	TTTCTACACT	GCTGGTGGGA	ATGTAAACTA	GTACAGCCAC	TATTGAAAAC
47701	AGTGTGGAAA	TTACTTAAAG	AACTAAAAGT	AGAACTACCA	TTTGATCCAG
47751	CAATCCCTCT	ACTGGGTATC	TACTCAGAGG	AAAATAAGTC	ATTATTCAAA
47801	AAAGATACTT	ACACATGCAT	GTTTACAGAG	CACAGAGTTG	CAACCCAAAT
47851	GCCCATCAAT	CAATGAGTGG	ATAAAGAAAC	TGTGGTATAT	GTATACATGA
47901	TGGAATACTA	TGCAGCCATA	AAAAGGAATG	AACTAACAGC	ATTTGCAGTG
47951	ACCTGGATGA	GATTGGAGAC	TATTATTCTA	AGTGACGTAA	TTCAGGAATT
48001	GAAAACCAAA	CATCATATGT	TCTCACTGAT	ATGTGGAAGC	TAAGCTATGA
48051	GGATGCAAAG	CAATGAGAAT	GATACAATGG	ACTTTGGAGA	CTTAGGGGGA
48101	AGAGTGGGAG	GGGGGCGAGG	GATACAAGAC	TACAAATGTG	GTGTAGTGTA
48151	TACTGCTCAG	GTGATGGGTG	CAACAAAATC	TCACAATCAC	CACTAAAGAA
48201	CTTACCCATG	TAACCAAAAC	CACCTTTACC	CCAATAACTT	ATGGAAAAAT
48251	AATCCAGCAC	CACATTAGGT	TTAGTCGGAC	TTAGCCAGCT	TGGCTTACAC
48301	CCTGGTTTTT	CAGGTTCTTA	TCATTCCCAG	TTTATGCAGC	TGTTTCAACA
48351	TTTTCTTTT	GCTAGTCATG	TGAAACTGCT	GTCTGGAATT	TTCTTTTCTC
48401	CTGCTACCAC	CCTTTATTAT	TCCTGTCTCA	CTTTCATCTT	CATCCCTACT
48451	GTTACATAAA	TGCATCTTGA	TTTCTAGGCA	AGCATTTGTC	AAATTCTCAT
48501	TAGGATCTTC	CTCAGGGTCT	TTTGTCTCC	TTAGTTTCTT	TGGCTTTATA
48551	GTGAAAGAAC	ATTTTTCTTT	TATTGTCACT	AACAAATACT	TCTTGGTCAG
48601	TTGTCACAGT	TCCCCTTGTC	CTTGAGGTCA	ATATATATAT	ATTTTTAAAC
48651	ATTGTAATTA	AATATGCTGA	CTGGGAAGGA	GTTCAGATGT	CTTACTAGTT
48701	ATTAGATACT	TTCTTTCCCC	ATGAACTGCA	CGGGAGGAAC	TTTGGTTACA
48751	AAGCTTGGCC	TCATCAGCTG	ACTTGAGGTT	GATATTTAGA	ATTTATACGA
48801	AGCACTTTCT	CCCTTAAAT	AACTGGCAAT	AAAAGTGTG	CTTTGTAGCG
48851	TATTTCTTAG	GCAGCCACAT	ATATACCTGT	AAGTTAGACA	AGGATAGGTG
48901	CTTCCTTTGT	CAACAAATAG	CTTTTGCAGA	GCTGAAGCTA	ACTTGTATCA
48951	ATGACTAGAC	ATTAAGTGAC	TGTGATCTGC	GCTCCAAGCT	ATTTCCATAA
49001	TCCAAGGCAT	AGAAAATGGC	AGAGAAGCTT	GCAGTATCTG	TTACCTCCTG
49051	TTCTTTTCTT	GTGTGTCAAG	GTCTTTGTGT	GTACCTTCC	ATTTTATTTT
49101	ACATTTTAAT	GCGTCCATTA	TGTAAAGTGG	TGTTTCTTAA	AGCTAATTCA
49151	GGATGACTGT	TATTTAAATA	TGCATACCAA	GAAGTTCTGA	CTTACCAGCA
49201	AAGAAAAAAA	AGGGTCTTTA	TTCAGAGAAT	GCTAATGGAA	AAATAATTGA
49251	GGTTTTACTC	TGTGTTTAGG	GACATCCTTC	TGGAGAAATC	AGTACATAAA
49301	ACCTGCCTCC	ATCCATCTTT	AATTATTACA	GTTTCAATTA	TATACAAATTT
49351	GCTCAAAGCC	TCTATGCCAC	AGTTGAAAAG	AAGATGGTTT	TATGTGACTT
49401	GGAAATAGGT	CTATTACAGT	TTATGCACTA	CTCGGATATG	GTAGAGTCTA
49451	ATTTCAGCTT	AAGCTCAGTG	TATTTAATCA	GTATCTTAGA	GTGGCCTATT
49501	CAAAATGCTG	CCATGTAAAA	AGCTAAAATG	GATGCAGCTC	TTTCTTCCCT
49551	ACCCTTAGCA	ATCATCAAAT	TGCCTTTCTT	CCCCTCTCTC	TGCATCCTGA

FIGURE 3P

49601 GAATGACAAG ATACTGTCAC TTCACAACCT CCCTTTGTTC AAAGTCACAT
49651 TTTTCTTCTT AAAAAGTTTA ACCAACTAAT TTTTTTTTTT TTAAGACCAG
49701 GGACCCATGA TAAGGCCTTA GCATTTTACC TTCTCATATT TGTCTTTCAT
49751 CGCTGTGTGG GCAAAGTTGA TTTTATTCTG TTCCTTTTTT TAAGAAAATG
49801 GGTATTGTGA GGCTTTAAGC TGGCCAAAGA TGATAGATTT TGCTGTTTGC
49851 TAATTTGGTG TCATTCCAGA CAACATTCTG TTCTCCATGC ATACTGACCT
49901 GGTGATAACA TGACATATAA CCTATTCTTT CCTTCTCACT TCTCACATTG
49951 AACCTCACAG TGGAACACTA GGCATCATT ACAAATGATAG AAGAAAGAGA
50001 GGAGACTTAC CTCCACCCAG TGATTCTGGT ACTACATTCA AAAGTAGAAA
50051 CTAAGTGGGA GGGGGAATTC TTAAAGTACA ACAGCAACTC CCTTTGTCTT
50101 CCAAACCATG AGAAAAATCT TCACAAATCT GTATCATTCT TCCTAATAAA
50151 TGCTTTTTGT TTTAGTAAGT ACAATATATT CAATGTAAGT TTATCTTTCC
50201 ACATTTATAA ACCATCTTGC AGTGCTTTTG AAGGTGTGAT TGTGAGTGTA
50251 TTAGTCAGTT CTCACATTGC TATAAAGAAA TACCTGAGAC TGGGTAATTT
50301 TTAAAGAAAA GAAGTTTAAG TGGCTCATGG TTCTGCAGGC TGTGCAGGAA
50351 GCATAGTGGC TTCTGCTTTG GGGAGGACTC AGGAAGCTTC CAATCATTGT
50401 GGAAGGCAAA AAGGGGAGCA GGGCATCTCA CATGGTGGGA GCAGGAGCAA
50451 GAGAGAGGAG GAGAGAGTCA CTACACACTT TTAAATGACC AGCTCTCTTA
50501 AGACCTCTAT CACGAGAACA GCACCAAGAG GATGGTGTGA AACCATTTCAT
50551 GAGGATCCAC CCCCATGATC CAATCACCTC CCACCAGGCC CCACCTCCAG
50601 CATTGGGGAT TACAATTCAA CATGAGATTT GGGTGGGGAT AGAGATGCAA
50651 ACCATATCAG TGAGTAATTT ACTTCATCAT TTTTAAGTCA CATGGTTATA
50701 AGATAGGGTT AATGTGTGTA ACTTTACATT TATAAATGAA ATGAATAAAG
50751 TGCTATGGCC AGTACCCAGC ACATAGTAAC AGGTGTCTTA CAAATATTCTG
50801 TTCTTTCCTT CCTTACTTCA TGAAGTTATG ACATTCTGAA CTTGCCCATC
50851 TCCTATGGTT CATTGTGGAC ATCCAAAGGA CAAATCTAAA TGGTGCTTGG
50901 CCCCAGGACA TCATGGAAAG CTGTATGTGC AGTGTCAAGG GGGTTATCTT
50951 CAACTCATT CATAAAGAG CATATGTTGC TTGTTTTGTT TTGTTTTCTA
51001 TCCTCATTCT GCAANNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
51051 NNNNNNNNNN NNNNTATCTT TACCACCCGA AAGCATTAAG AGCTTAAGAA
51101 GCATTGTATT ATTTATAAAG TAACAGCAAT ACTTTTAAAA TTTCTGCCTT
51151 CTTTGTGTAC TCTATTTTAT GGATATGCTG TGTAGGCCTC TCAATAATAC
51201 TTTCAATAAT CTCATTTCATG CTAAGATGCC CCTAGCTTCT GGAGATTTAT
51251 AAAATTCTAG TTTTCAGGCT GAGGGTAAAC AAATTGTTCC TTTTAAAGT
51301 GAGTTAAGAT TAAAAAGTTT GTGTGTGTGA ATAGGTATAA ATGTATACAT
51351 ACATATGCAT ATATTTATAC ATTTATACCT ATACACACAC AAACATATGT
51401 TTTTCAATAT CATATATATG TATTATATAT ATGAATATCA CATATATATG
51451 TGTGTGTATA TATATATGTG ATATTTGAAA ACTCTTCTGC TCATTGCAGT
51501 CAACTTGAAA AACAGAAAAT TACCTAGAAA AATGAAAATT CTTCAATAAT
51551 TCTTATCACC TTGTAACAAT CACTTCTAAC ATGTTGGTGT ATGCTTTTCA
51601 GTAAAATGTC TGCATTTGAT TTTCTGTTTT TGATCATGCA TTAGCCTCAA
51651 TCATTCCTTC TTTACCTAT ATGTTTACTG AGCATCGAAA ACAAGTTATA
51701 ATTTGATTGC TAGGTGAAAT ACAAGATGCA CAGTTATATT TGAATTTTCA
51751 ATAAACAACC AATAATTTT AGTATATGGC CCAAATATCA CGAGATATAT
51801 TTTTACTGAA AATTTTATT TATCTGAATC TGAAGTTTAA TTATGCATGT
51851 TGTACTTTTA TTGGTTAAAT CTGGCAATCT TAACTGTAGT AGAAACCCAT
51901 GCTATGGGGA TATCTTGGTG AGCAGAAATA GACGGAGCCC TGATATTAAT
51951 CAAATGGCAC ATGAATATAT AAAGTGTGAG AAGTATATAA AGAGAGTAAG
52001 TATGAAGAAC TGTGTGTGTG GTGTGTGGGT ATGTATGTGT TGGGGTTTCA
52051 GAGAAAGAAG GTAAGTAGTC TGGGGGCAGG GACGTTAAGG AGGAAAGAAC
52101 ATTTGGAAAT AAAATTCAAC CTGACTTGCC TCCAGGGACC TGGCTACACT
52151 CAGGAACAGT CTTCAAATGT AGGCCATGTT ATCAAGTGAA TGCTGCCAGA
52201 CAGGGCTGGC ATCCAGGAAA AGTAAATAAA ATCTTCTTGT GCGTCTGTCT
52251 CTGAGGGCTC TTCACAAAGC CCTGGCAACC CACAGCCTGA AAACAAATAG
52301 GCCCCAGTCT TTCCCAGCAT AGTTGATTCC CCAGGTGGCT TTTGTTAATT
52351 GAGATTAAAC CTGTAGCTGC ACACAACTCC TCAGGGCCTC TATCTCTTTA
52401 CTCATGTCTT TGTCCCTGTG GATAGAAGGG GTCCACATGT GGTTTCAGGA
52451 AATTAGGACA CCAGATCATC TGTTTTAACT GGAAAGAACT ACCTGTACTG
52501 AGAGTGTGAC AAGGTCCTTT CAGACTCTGA ACATAGCCCA ATAAATGGTA
52551 TCAACCTTAA ATAACGAGAT TCTGAAAATA TGATTAAGTA TCGAGTTTGC
52601 TGGAGCCCAG AGCTTGAGGA TGCCACCTG GGAGCACAGA TTCACTTTGC
52651 CCAGAATGTA CACTCCAATT AGCAGCAGTT ATAAGTGGGG TTTTAAGAAA

FIGURE 3Q

52701 AAAAGACAAG GCAGTTCCTA AGTTATTTAC CAAAAATTTA CATTAAAATA
52751 ATGTAAGCTA TTGATGGACT ATGCATTATT CTTTATATCA CAAATTACAG
52801 GAACACAAAG ATAATGGGTG AGGCAGCTAG TCAGGAACAA AATGGCTTTA
52851 AAATACTGTC CTTGAGCATG GGTTCGAGGC TGTGACTGAC ATCCCATACT
52901 CATGTTTCTC TAAACCTAAT AAATTGTGCA TATCTCATAT AGCTCAGACT
52951 GCTCTGAGCT ATTTTGTGTT TCTCATTTCC CCCCTTTTCA TCAAGATTTT
53001 GCAAAGAAAG CATTGTGGAT GAACTTAAGC AGTTTTGGCT CCTTTTATGT
53051 TCAGGAACTT AGTCCTGCAT TGCTAGGAAG TCTTATTCCC AGATGGTCCT
53101 GTCCACATT TGGGGGAAGG GGAAAGGATG AGTCTTAGTG GGGATTTTAA
53151 CACCATCAGA AGCAAAATTG GGATGGCATC GCAGGGTGCC ACAAATGAGA
53201 CCTCACCCAA GTCACCTAAT TATGTAGCTA CTGTTGCTTG TGGGATCATC
53251 TCCAGGCTTC AGAATACCAT GCAGTTAGTT TTCTCGGAAT AAGTAAAACA
53301 ATGAGCTATA CATAGTAGAA ATATAATACA CATAACAATT ACAATTAATA
53351 AAAAAAAGA ATTTCTATGC CTGAATGAAA AAAATATCTA TTCCATTGGA
53401 AAGTCAACTA AAAACATCAT GAAGAAAATT AAAATCCAGT CCTTTCTTAG
53451 AGACTTGTTG TAGCAGGAAA TAATTCAAGA TTTAGATCAA ATTGTAGGAA
53501 AATAATAAAA ACTAGAAAAC AATGGTCAGG GCTGAATTTA AAAACAGGTG
53551 TGCTATAATT TTCTTCTGAA CCATAATTTT TCTCTCTTCA GTTCACTATT
53601 TCTACCCAAG ATAAATGTTA TCAGGACCAA CATACTTGTA AAATAAGCTT
53651 TAGTATTATA TTTGGCCTAA TTATTTGCAT TAAGTGCAAC AAAAATAATG
53701 AATGGCCATG TACGCATTTT TAAGTTGGCT TTGCTGGAAC TTTTTCATAA
53751 GGAATCTCAG ATTAGACTTT TAAAAGCCTC TCTAAACTAG ATATTGAAGC
53801 CAATAATTCA CCATCAAACCT GCCTGTAGCA TCTACATAAA TTGGGTGAAT
53851 TTCTCCCTTC TTCAGGTTCT GAAATATATT GAGGTTTCTA GGCCTGTCAA
53901 ATGATGACAT TCTTTACTTA CTGCAAGGTC AAAAAACTTG TGAGGGTACC
53951 ATGTAGACAA GGTATCAGGT CAGTTTTCCA AAAGGACTAT TGATTTGGCT
54001 CTATAAAGTC AACTTCAATT CATCAAAGCA GTTTGGTCAT ATCTGAAAGT
54051 ATGTCATTTT ACCCAAAGCC TTGGTAAAAT GACCAGCCTT AGTAAAATGA
54101 CCAGTGTCTC CAACTGTGTA CTGTTACAGA AGAAAACAGG TTCTTACTGA
54151 ACTTACACAA ATAACAATAT TGCCATAAAT AAAGAGTATT CACAAATAGT
54201 TTCCAAATTC TGGAGGAATC AGGTAGAGAG TAAGATGTTT CAATTTTGCT
54251 CATAAAAGTA TACTTTACTT AATTGTTGTA AGCTCTAAAT AGCTCAAAAA
54301 AAATTCCTGA CTTTGGAAAA CAAAACAAAA AGAATCAGCA ATGTTCCAAA
54351 CAAAAAAGT CATTAAAAAA ATTTCAAGTCC TGGCCAGGTG CAGTGGCTGA
54401 TGCCTATAAT CCCAGCATTT TGGGAGGCCA AGGCAGGTGG ATCACCTGAG
54451 GTCGGGAGTT CAAGACCAGC CTGACCAACA TGAGAGAAACC CTCTAAAAAT
54501 ACAAATTTAG CCGACGTGGG TGGCACATGC CTGTAATCCC AGCTACTCGG
54551 GAGGCTGAGG CAGAAGAATT GCTTGAACCT GGGAGGTGGA GGTGCGTTG
54601 AGCTGAGATC ACATCATTGC ACTCCAGCCT GGGCAACAAG AGTGAAACTT
54651 CATCTCAAAA AAAAAAAGAA AAATTTAGTT CTCTATCAGT TCAGTTCCAT
54701 GTAGTTAACT CTTGTTCTGT TTGATATTGG GTTAGCAATC TTCACGAAT
54751 GATGAACTTT TATATTAGAA TTCTGAAAGT TTTTACATAA TCCATTGATA
54801 TGATTTCCAA AACCTTCAGA AACTTGTATT CGAGAGTACT TCTCAGAATC
54851 CTTTTCATGA ATTTCCCTGA AGGATAAGCA AATTTTGGAC TGAGCTGAT
54901 TATAAACCAC TTTTATGAA GAATCTAAGT AAAATAATAA TTGTCTGTAG
54951 ATGACAAAAG ACTTAAAGCA GTCTTAGTTA AAGACACAAT TGACCAGGAA
55001 ATTTGGTTAT GCCTGTAGCA TACAACAACCT TGACATAACA ATCGTAATTA
55051 TTAATGATCA TATATACCA AACATATTGG AACTTTTGGG ATCTCATTCA
55101 ATTTTGGAAC AGATATTAAT CATATTAATA CATTTATACA AATATATTCA
55151 AAGAAAGTTA AACATCATT CTTATTTGAC AATGCTTTCT GTATGATTTA
55201 AACATATCAA ATAAGCCTGA TCTGCCTCTC TGTAACCTCT AGGGGACCTC
55251 ATATCTGAAA AGTTATTTTC AGGTAAAAA AAAAAAAGGA
55301 CTAAATTTTA ATTTGAAATA TGATTTTGGG AAGTTTGTCA AATATCAAAG
55351 GTTTAAAAAA CTTACTCAA ATATTTTAC AGGTCACTGT AAAATAATAG
55401 TCATTTATTT AGCCAAAGTG ATAATCCAA GATTTCAAAA GCAAAAACCT
55451 TTAATTTTGT GTAGAAAGGA GACTGCGTTC CCAATCAAGA GACCTAATAG
55501 GGACAGCATG AGGCAAACTC TTCCCTCCTT TTTATAAGGA ATCTCAGATT
55551 TTACCTTAAA AAGCCTCTCA AGGCTAGGTA TCTTTGAGAG GTTACCTTTT
55601 TTTTTTCTG TTTTCTTTT TGAAGTTTAA TCAAAAGGCA AACAAATCTT
55651 TTAATGTCTC TTATTAATAC TATATAAAT TCTTATTCAA AGGAGAATGC
55701 CAAATTTATA TTAGTGTGTT GTCAATACTA AAGCTAATTT TAATTAAACA
55751 TTATAACAA ATCCATACAA TCTCAGTCAG CTTTGACTGC AGAAGATAAG

FIGURE 3R

55801	ATTTTCATAA	ATCTTTTATA	ACCTATTACA	ATTTTCTATT	AAAGAGAAGA
55851	TCAATGTTTC	AAGAAAACCC	TGTGGTTCCA	AAAGAGGGGC	CCAGACTCTG
55901	GCCTTGCAAC	AGTGAGCTTT	TGAGATTAAT	GTTCACTTTT	TAGAAAAACT
55951	TATAAACAAT	TCTCTTCTAA	TTTTAGCCAA	CTTGATCACA	CACAAAATTC
56001	CTTTCACAAG	ATTAATCTTC	CATAAACCCA	CAACTTGCTT	AAACCTTCAG
56051	TTTTGTCCTA	TACTTCTTTT	ATTTTGAGAC	GGAGTCTCAC	TCTGCCCAGC
56101	CTGGAGTGCA	GTGGCATGAT	CTCGGCTCGC	TGCAACCTCC	GCCTCCTGGG
56151	TTCAAGCAAT	TCTTCTGCCT	CAGCCTCCCG	AGTAGCTGAA	ACTACAGGCA
56201	TGCACCACCA	TGCCGGGCTA	ATTTTGTAT	TTTGTAGTACA	GACGGGGTTT
56251	CACCATATTG	GCCAGGCTGG	TATACTTCTT	TTTGTAGATTG	GCATTCTATC
56301	TTAGGACAAA	ATCTACTTTC	CTTCTCCCT	TATCATTTTG	ACCACACAAT
56351	GCTCTCTTTC	ATGCAAATGA	AAAATTACTG	TCATTTCAAC	TCCCTTTACC
56401	AAAAACACAT	CTTAATTTCT	TTATATACCT	TATGTATAGA	ATTGTCTCTC
56451	TTATATCTAG	TCATTTTTTT	TTTCTTTTTT	CTTTTTTTCT	TTTTGAGATG
56501	GAGTCTCACT	CTGTCGCACA	GACTGGAGTG	CAATGGTGCG	ATCTTGGCTC
56551	ACTGCAACCT	CTGCCTCCTG	GGTTCAAGCA	ATTCTCTTGC	TTCAGCCTCC
56601	CAAGTAGCTG	GGACTACAGG	CATGTGCCAC	CACACCTGGC	TATTTTTTTG
56651	TATTTTTAGG	AGAGACAGGG	TTTCACTGTG	TTTGCCAGGG	TGGTCTCGAT
56701	CTCCTGACCG	CATGATCTGC	CCGCCTCGGC	CTCCCAAAGT	GCTGGGATAA
56751	CAGGCATGAG	CCACCGCGTC	TGGCCATATC	TAGTCATTTA	AATTACATAC
56801	GATAACTACA	ATTTTAACTC	TTAGGAACGC	TAATTTACAG	TGAAATCTGA
56851	GGAAGTAATT	TTGAGCTGTT	TTATGCCAGT	ATTTATAGAT	GAAAACCATT
56901	TCATAATTTT	TATAAAGTTG	TTTCTCAAT	TATTTTGTTT	ATTAACAGAT
56951	CTAAATATAT	TTAGCTTTTC	TACACCATAT	AACTCAGACA	TTTTATGGTT
57001	ACACAATGCT	TAATTTAACA	TGACTTTACG	ATTTAGTTAC	TGAAAAAGAT
57051	TTTTGAAACT	GAAAAGTTCA	TTTATACACT	TCTATCTCAT	TTACATTCAT
57101	TTAATTTAGT	TTATTCATT	TTAACAATTA	TGCTTGAATA	GTTCAATAAA
57151	CAAAAGTAGC	CACCATCAAG	TTATTTCTTT	GTTAATCATT	TTTATAGCCT
57201	GCAAATGTCA	GGCAGTTGCC	ACCTAAGCAA	GAACCCGAAA	GCTAAAACAG
57251	AGATATTTTG	CTGATCAGAA	GGCACGGTGG	CTTTCATTAA	ACCAACAGTA
57301	TTAACTGGTC	TTATTTACCG	AAGATTTACC	CAAGTTATGT	GAACATAAAG
57351	GGATTTGAGT	TATTTTCTAT	TTTTCTGATA	AAATATTTAA	GTGTTTCCTT
57401	TCTCTTTTGG	CCAATTAGAA	CTCATTCATA	TATTTTGTGA	ATAAATTTTA
57451	CATACACATG	ACACATATAA	ACATGCAGAC	ACACACAGGC	AGATTTTATA
57501	GCTTTGTAAG	TTTCTTCATT	TGCCAGTTTT	CAATAGTTTC	TCTCCCACCT
57551	TTAGACTGTC	AAGCCCTAAA	CAATTGTTAG	CTAGGCAACC	TTAAATTTGT
57601	ACTTCTAAAG	GGATGACTCT	TAGCTGAAAC	AAAGTAAAAA	AAAATAAAAA
57651	TTACACTTCA	AAAACACAGA	GCGGAGCTCA	AACTAAGGGA	GCAGGTGTAT
57701	ATAGGTAAAG	GTCCAGTTAA	GACAAGATGG	CCAAGGAAAG	CATCTTAAGT
57751	AAAGGTAGGA	CTTGTATAGA	TTTAAACCAA	TGTTAAATTT	CTCATGACTC
57801	AGCTCTCCCT	CTCCTCCAGG	TGCACAGAGG	CAGAAACCCT	TACAAATGGA
57851	GATTTCCCTT	ATCAATGTAA	ATTTCAATAT	AGCCAGCTAA	ATGCCAGCAA
57901	GGTATATTTT	GGAGAACTGT	TAGAGGCAGT	GAATCTGTAT	GTGTCTGCAG
57951	CAACTTCAAT	TCTTGCCTAC	TCTCAAAATA	AAAAATTCAA	CTGAGGGGCA
58001	TAAGGTAGAA	TGAAAGACAG	AGGCAATTTT	TAGAGCAAAA	GGGAAAGTTT
58051	ATTTTAAAG	TTTTAGAGCA	GGAATTAAG	GAAGTAAAGT	ACACTTGGAA
58101	GAGGGCCAGA	TGGGCAGCTT	GAGAGATTCA	AGCACACGGT	TTGACCTTTG
58151	ACTTGAGATT	TTATATGTTG	GCAGGCTTCT	CGGGGGTTGT	TGCTTCTCCC
58201	CTGATTCTTC	CTTTGGGGTG	GACTGTCCGC	ATGTGCAGCA	GCCTGCCGGC
58251	ACTTGGGAGA	GGCCGCATGT	GCAGTGTGTT	TACTGAAGTT	ATGTGCATGC
58301	TTACTTGAGG	CATCTTTTTT	TCCTTACCAG	TTGACTGTTC	CTAGAGGAAG
58351	GTCATATACC	AGTTAAACTC	TACCATTTTT	GCCTCTTAGT	GTGCATGCTT
58401	GAGCCTACTC	GCCCACCTCC	TGAGATCTTA	TCAGGAACCT	ACTGATCATC
58451	AGTTTCAGGG	TTTTTCTATC	TACTGGGAGA	TTGCCTTTTC	CTGGCGCCGG
58501	CTGCAACCAA	ATATTATTTG	AGAGAGACAG	TTTAACAACC	ACCTGACCAT
58551	CACCTAATGG	TTGTCTGACA	TTCTTGGGTG	GAGGTGGGGG	GTGATCTCCT
58601	GCCTTGCCCA	TGTCTGCCTG	CCTACTGTAA	CAGACCAACT	TAGTTAAATA
58651	GGTGGGCTTT	TCAACTTAGT	TTGTTTCTTG	GTGAGATGAC	TGACATCATT
58701	GTGAAGCTCT	TTAATGAACA	GGGCAAAGAA	AGCCTTCTCT	ATGCCTGGAC
58751	TCGGCATGGA	CAGCTCTGGG	AAAGAAGAAA	GCCTATTTTA	CCTGAGGGCC
58801	TATCTTTTAT	AAATATTTTG	TTCAAATTCT	TTCTTTTAAA	ACAAAGGTTC
58851	TTTTTCAATG	ACTTACCAAA	CCAATACACC	TTAACCAAGG	TTATGTCTAA

FIGURE 3S

58901	ACCAAGGATC	AACTAGGCAT	TTCCAAAGAG	TGGCAAAGTA	GTCCTCACAA
58951	GATCCAGAAC	CAAAGACAGC	TCAAAGAAAC	AAATGTCTTG	CTCACTGCAA
59001	ATAGAATACA	ACCCATATTT	CTGTCCAGCC	GTATTTTCAA	GGATCTCAGC
59051	TTCTCTGTTG	AGCACCTACT	CACGGAGGCC	CCAAAGCCCT	ATATGCCCCA
59101	CAGATAGAGA	CAGGAAATCA	AAAGCTGTCT	CTGGAAGGGA	AAAGAATCAA
59151	TAACAAATGG	GTACCTCAGA	AGGTCAAGAG	TTATACAAAT	GATTTTAAAC
59201	AAATAGGACT	GCTTTCCTGA	CTGGGAATCA	AACCTGGGCT	GCAGTCATGA
59251	AAGCAGAATC	TTAGCTGGTA	GACCACAGAG	TGGAGTGCTT	TTTTGTAAAT
59301	CCTTCAGGAG	ATCCAAGCAG	GCAGTTTGAG	CATATAAAGG	ATTTCAACTC
59351	ATTTCAGATC	TGATCACAGC	TGGAATGCTG	TTTAGCTAAT	TTCCTGCATG
59401	TTAATATTTT	AAAGATATGA	TGAGATTTGT	ATCTGCAAGG	GATTGTGAAG
59451	TCCAGCAGGG	CATTTGAAGG	ATATTGTCTG	GGCCGGGCAT	GGTGACTTAA
59501	ATGTGCTGGC	TTAAAATCCC	AGCACTTTGG	GAGGCCAAGG	CGGGTGAATC
59551	ACTTGAGGTC	AGGAGTTTGA	GACCACTCTG	GTTACATGG	TGAAATCCCA
59601	TCTCTACTAA	AAAATACAAA	AAATTAGCTG	AATGTGGTGG	CACGTGCCTG
59651	TAATCTCAGC	TACTCAGGAG	GCTTAGGCAG	GAGAATTGCT	TGAACCTGGG
59701	AGGTAGAGGC	TGTAGTGAGC	TGAGATCACA	CCACTGCACT	CTATCCTGGT
59751	GACAGAGCAA	GACTCTGTCT	CAAAAAAAAA	AAAAAAAAATA	CTATCTGATG
59801	TTGGGTCAAG	AAATCATCAG	TGTCATTTCAT	TAGACCTGGT	ATAGACAAAA
59851	GTTTGTTGGA	TCTGTATTTT	TATAATCTCT	GTAGTATCAT	TCTTGTTCTG
59901	TAGTTGTTTC	ATTTGTTCTC	TCTGTTTAAA	AATTATCTTC	CTAGGAGATG
59951	GATGGGAGCT	GAGGGAATGA	GCAGAAAGGG	ATGAGTTTAG	ATCACAGGAG
60001	TAGGAGGAGA	TGGAGCAGTT	AGAGGTGAAA	GAGAAAACCT	CCAAAATCTT
60051	ATTAAATTTA	GAAATAGTTT	CAACATACT	TTTGTTCAAC	TCTTGAATGG
60101	AGGCAATTTT	TTCTTTTAGG	ATTTCTTTTA	GAAACTTGTA	GGTACTATTG
60151	GAAGTAAGTC	TCTCACTCAA	TTTGGTTCTA	AAACTAGCTT	TTTCTAATTG
60201	TGTGTGCAAA	CAAACATAAT	TAGGTATTTT	AAAAGGTACC	ACATTTTGGC
60251	CATTGTCAGT	TGGAATCATT	CTGAGTTATG	CTCTACTAGT	TTTCTAAATA
60301	TTTGCATGAA	GAGGCATGGT	AAGTATTTCAG	TATGAATCGA	GCTGGCATT
60351	CTAATGGTGG	ATCTCTTCTT	AAGGAGGAAA	CCTCAGTTTT	AGATAGTTGA
60401	ACTGCCTTCA	GAATCTGGCC	AGTTTTAAAA	ACTACAGTTG	TTTTTTCTTA
60451	AGCCACAAAG	ATTTACTTAT	TTTTCAAGAG	AAACTATATT	CTTCTTGGCC
60501	AAATTTTGTA	TTAGAGGAAA	GGTTACAAAC	TCTAATGAAT	AAGACAAAGA
60551	AAACCTTAAC	TTCAGAGAAA	AGTGAAAATC	ACAAAACAAA	GTAAATATAA
60601	TCTCTAGAGA	ATAACACATG	AAACTCCTGT	CTTTCAGTAG	AGTTTCAATT
60651	CCAATCCCGC	AGAGTTAAGA	ATGTGTATGG	CTTGAATAAA	GTCTGAATCC
60701	TCAACTAACC	TGGGAGTATT	TGGATACCGA	GATGGCTGCC	AGATCTGGTG
60751	AGGTTGGGTG	AACCAAGCTG	TTGATTCTGG	TACTGTTACA	GGAAAGCAGT
60801	CCTGATCCAT	ACCCAAGAG	AGGGTTCTTG	GATCTCACGC	AAGAAAGAAT
60851	TCAGGGCAAG	TTTGCAGAGT	AAGGTGAAAG	CAAGTTTATT	AAGAAAGTAA
60901	AGGAACAAAA	GAATGGCTAC	TCCATAGACA	GAGCAGCCCT	GAGGACTGCT
60951	GGTTGATCAT	TTTTATGGTT	TTTTTAATAA	TATGCCAAAC	AAGGGGTGGA
61001	TTATTCCCTT	CCCTTTTITAG	ATCATATAGG	GTAACCTCCT	GACATTGCCA
61051	TGGCATTTGT	AAACTGTCAT	GGTGCTGGTG	GGAGTGTAGC	ATTGAGGACG
61101	ACCAGAGATC	ACTCTCATCG	TCATCTTGGT	TTTGGCCGGC	TTCTTTGCCG
61151	CAACTTGTTT	TATCAGGAAG	GTCTTCATGA	CCCGTATCTT	GTGCTGACCT
61201	CCTATCTCAT	CCTGTGACTT	AGAATGCCTT	AACTGTCTGG	AAATGCAGCT
61251	CAGTAGGTTT	CAGCCTCATT	TTACCCAGCT	CCTATTTAAG	ATGGAGTTGC
61301	TCTGGTTTAC	ACGCCTCTGA	CAGTACCAAC	ATTCCAATTG	TCACGAACTT
61351	GAGGGGATCA	CTGAAGCTCC	ACTTTAGATC	CCATCTGGGG	TGGTAAAATG
61401	TCAACGTGAA	ACAAGATTCA	GAAAATATGA	TTAAGTATAG	CATTTATTGG
61451	GGCTCAAAGC	TTGAAAATTG	TTATCCGGGA	GCATAGATT	AAGTTGCCCT
61501	GAATATACTC	CAATTAACAG	CAGCGACAAG	TGGGTTTCTA	CGGAAAAAAG
61551	AAGAGGCAGT	TTCTAACTTG	TTCGCCAAAA	ATTTACGTTA	AAGTAACGTA
61601	AGCTATTGAT	AGGCTACACG	TTATTCTTTG	TATCACAAAT	TCCAGGATCA
61651	CGATGATAAT	GAGCCAGGCA	GCTAGTCAGA	AACAAAATCC	CAGGCATCAG
61701	TGTGGGGATA	TGACTGAAGT	CCCATACTCC	TGTCTCTCTG	GGCCTGACAC
61751	ATTTTGCATA	GTTTCATATAG	CTCAGCCTTC	TCTGAGCTAT	TTCTCTCTTC
61801	TCAGTGGCTT	TCCTGGAAGC	AGCCTCCATC	ATATGTGACT	CAGAGTGCTA
61851	GCATTTCTTC	ATGGGTTTAT	AAACCATAAG	AACTCAAGGT	GGCCTTCAGA
61901	GCCACAGCAT	CAACAATATT	AACTTCCCTA	TTAGTAGTGT	TCTATTACTT
61951	TGGGTTTTAC	ATATATTATC	TCATTTATTC	ATCATAACAA	CCTGGTTGAT

FIGURE 3T

62001 AGGGATTATT ATTCCCATTC TATTCCTGAA GAAACTGAGG CTCAAAGGAG
62051 CTAAAATATT TTCCTATAGT CACACAGCTA GGAAGTGGCA GAGCGAGGAC
62101 TCAAACCCAA GAATCCTGAC TTCAAAGCCT CTGCTCTTCC TGCTGCACTA
62151 TACCATCCCT ATACACATCT CTGAGACTCC TGTA AAAAATA TGTAAGGAAC
62201 AGGATTTATT TCATTTATTG TCTTTCATAT CCCACAAGAA TACAAACTGT
62251 GTAAGGCAGG TATGTCTGTA TGTTTTTTAT CACTGCCTCA TTCCCATCT
62301 TCCACAACAG TGCCTACCGC ACAGTAAGTG CTCGATAAAT ATCTTTTAAA
62351 TGAGCATGTG AATGAATGTG TGTTAGTGTT AGGGCTAAGG CCTTTGGCTT
62401 CTGGTTAATT GCCCTTTTTG CCATTATGCC AATGTCATTT GCACACTCAC
62451 AAACATACCC TCATATAATC ATATGCACTT CAGTTTCTTT GCAGGTCCTG
62501 GGTTCCAGACA AATCTGAGTT TGAATTTCTG TTCCACCACT GGGTAACTGA
62551 GTGAATTTGG TCAGTTATGT TTGGTATTTT ACTTAGTTTC CTCACCTGTA
62601 ATTAGGAATA ACAGGAATAC TCATGTCACT ACTACTTTGA ATGACAGTGA
62651 TAAGAATATG TACTTCAAGC ACCTCACAAA GTACGTGGTT GATAAATGGT
62701 GACTTTACAC AACAACTGAG TGACACTTCT TCTGGCACAG GGGCCAAGGG
62751 AAAATTTCCC CTTCAACCTC TGAAGGTTCA CTGAGAATCA ACTGATAAAA
62801 GGCAGATTAA TAGGAGAAAA AGCACACAAA ATTTGTTTGC AATATGGAAA
62851 TTCACAGAAA GGGGTAGATG GTTGACACTT TTATGCCATC TTGAGGTTAC
62901 AGAAAGAGCT TGGAAAAATA GATTATGGGT GAAGGGAGAG AAAGAAAGTC
62951 CTGGGGCAAA GGTGGTCCTT GTTATGTAGA TGAAATCTCA CAAGTAGCAA
63001 CTCTCAGAAA GAATAGATGA TAGTCTGTGG TTGGGAGATC TGATCATGGG
63051 GAGGTCCTCA GAGAATGCCT GGTGTTTAT TTCACTAATG TATTTTTTTT
63101 TCCTATAGAT ACAAATCATC TCCATGAAAG GTAGCTTTTC AGGGTTATTC
63151 CTGTGTGCAT GCCTTCTTCT GAAGCACCAT CTCAAGATAT GTCAAATAAG
63201 TGTATTTGGG GTGAAATATT TTTGGTTTCC TTTGCTAGAA ATGAAATGTC
63251 CCTGCTTCCC CATAGCCAGA AAAGATTCTT GAGTGGACAA CTGCACCTAA
63301 ACTTGAACCT GAGCACTAGA AAGTCTTTTG TTTTATTCTA TGTTTTTATA
63351 AATTTAAATC TAATTTTTTG AATATAAAAT AATACATATT TTGTAAATGT
63401 GGAAACACAG AAAGTTCTAA TGAAAAAATA AAAACCTGTA TTTCATCACG
63451 CAGAAATATC TGCTGTATTA GTTTTCCGTT GCTGCGGTAA CAAATTGCCA
63501 CAAACCTGGT GGCTTGAGAC ATCATAGATT TAGTATCTTA CAATTCTGGA
63551 AGTCAGAAAG CCAAAATCAG TCTCCCTAGG CTAAAATCAA TGTGTCACCA
63601 GGGCTGTGTT TCTTCCAGAG CCTCCAGGTG AGAATCTGTT TCATTATCTT
63651 TTCTAGCTTC TTGAGGCTGC CTGTATTCTC GGCTTGTGGC CCCTTCCTTT
63701 ATCTTCAAAG CCAGCAGCAT ACTATCTTCA AACCTCTCTC TGA CTCTGAC
63751 TTCATGTTCT CCTTATTCAT CTTTAAAGGC CCCTTGTGAT TACATTGGGC
63801 CTACTTGGAT AATGCAGGAT CACCTCTCTA TCTGATGATG GGCCTTAAAG
63851 TCCCTTTTGC CACAAAAGAA AACATATTTG CAGGTTCTGG AGATTATAAT
63901 GTGGACAGCT TTGGGGAGCC TTTATTCTGC TTATTACAAA CACTATTAGT
63951 ATTTAGTGCA ATTCATTCCC ATTGTTTCC CTATATTTT CAACATATTT
64001 CACTTTTAC TATCTATGCC ATTCACAAGA TTGCTTATTT CAAGCAACGT
64051 TTTATTGTAA TTGTTTTCTG TTATCAACAT AAAGTAATCA AAAGGGTCAG
64101 AATCTAGTTT AAAGTGAGTT TATTCGAGTA CAAAGTTTGA GGACAAGCCC
64151 CCCAGGAAAC AGAATTCAAG GAATGGAAGT CAGAGTTCCA AAGGTAGAC
64201 ATTGGGGATC ATTTATAGAC AAAGTTCAGG GAAGTTTAA AGAATTTAC
64251 CATCTTCTA TGTAAGGTTT AATGCATAGT TACAACAATC TGATTAGTCA
64301 AAGTGGTCTT TTTCTTTTGA GAAATGTATA TTTAAACATT CTA CTCTGAA
64351 GATGTAATTG TCATGGGGCC TTGGGCACCA TCATGTCTGA GTTAGGTACA
64401 AGACTATAGG GAGGCAGTTA ATCTATAACA AAGATCAGTG ATTGGAAAGG
64451 GGAGGTCTGG TCTCTTCTAG TCATTTATAG AATAAGAACA ATGAGGAAGA
64501 GAGGTAAGCT ATAATCTAAG ATGCAGAATT GCAGACATGC CATGCGACTC
64551 ACTCAGTTTC CAGGGCTTAA CTTCCCCCTT GTCAAAATCA ATTTAGAAGA
64601 TCCTGAAATT TTATTTTATT TTATACTTAT ATTATTAAAC ATGTTTTATT
64651 AGAATGTTTC ATTGTTGTGG GGAGAATTCC TAAATTTCTT AAGCATAAAC
64701 ACTCTTTGTT TCTTTTCACT ATATATTTCT TCCCAGTACA TGTTATTTGG
64751 ACCTAAGTCT TCTGGGATGG CAATAGAGAT GCAATGGAGG TCAAATTCCA
64801 TCCTTTTTAG AGGAATCTAT ACAAATTAGA GCTAGTAAGG ATATAAAAGA
64851 TCATTTTATC AGGTGCATCA TCCCTAAACA TACATACACA TTTACACACA
64901 TAATGTAAAA TCCTGTTAAA AGAAGACGCT TCCCAATATT CAAGGGCTGT
64951 ATAGACGTGC TTTTAGATTA AGAATTAGAT GCATTATGAC AGATTTTGCT
65001 ATGTAACAAA CTGCCCAAA ACTTATTAAC TCAAAACAGC AAGTATTGAT
65051 GTCTCATGAT TCTGTAGATT GGCCAGGAAG TTCTTCCAGT CTGGGCTGTT

FIGURE 3U

65101 ATGTGAGTCA GTGATTCAAA ACTATCCATC TAGGCCTTGA AGGCGGGGGC
65151 TAGCCTAACC TTTTCTTCT GCCATGAGAC TAACCCTGGC TTCTTCACGT
65201 GCGGGTGGAA GGGTTCCTAA CAGCAACAGC TGACAAACTT AATGAGCAAG
65251 CACTTTTTCA GCCTCTGCCA CAGTCACATT TTCTATCCTA TTGGCTAAAG
65301 TAAATCACGA AGTCAGGCTC AGATTCAAGG GGTGTAGAAA TAGGCTCCAC
65351 TTCTGATGAG TGGCACGGCA AAGTCAACAT TGCAAAAAGC CAGGCAGAGA
65401 TATTACTGTG GCCAGTTTTG CAAACAATCC ACCGTAATAC ATAAAATATG
65451 TTTAAGCAGT CCACAAAATG ATCAAGGAAA TGGTAGAAAC TATAAACACT
65501 GCAAGAACTC AGAGCCACAT GATGTTATTG AGTCCTTGTA GTGCTCTGAA
65551 AGGGTTCAAG GAAGAAGTTG TTTTGGCATA TGACCCTGAT GAACTTGCAA
65601 AAGTAGAGAA GAAGGGAGCA CAGTTTCTGA AGAAGAACTT AGTAGAGAAG
65651 TGTTATTCTG TGGCCAGTAC GCAGTAATTG TTCCACCTAG AGATGTTGAC
65701 TGACTGATGA ACAGGAAGCT GAGTCTTTAT AATGCAGATA TTCACATATT
65751 CATTTACTCA TCCTTTATTG AAAACAACGC AAGGAGCCAC TAGAAAATTT
65801 AAGCTCAAAA GAAACTCACT GGATGGATAT GGGGTAAAGA TTCAGAAGCA
65851 CAGCTGAAGT AGCAGGTTTC ACAAAGATTA GGGACAAAGG GCAATCTGGA
65901 AATCTAGGTA GCAGGAACTA TTGAATAGAC TCTTAAGCTG TCTGGGCGGA
65951 CATGAGTCAG CTCCAACCAA TTTTCTAACC TTGTGTCACC CACTCAAGAT
66001 TGAAAGTCCT GGGAGAGAAT CCAACTGGCC TTGCTCAGAA AACATTCTG
66051 CCCCTTAGCT CAAAGAAAGA ATAAAATAAA TGACTCCTGG ATTGTTAGCC
66101 TAAGCAACTT AGATGATCAT GTCATTCATT TAGATGGGGA GATTGGAGGA
66151 GGAGCAGATT CATTGTGAAA ATCAGGAAAA CTCTTTTAGC TCTGTTAATT
66201 TTGAAGTACC CCTTAGTAAT TCAGATAGAG CTCTTGAATA GGCAGTAAGT
66251 GAATCTGGAG TTCAAAGGGA AATTCAAGGA GTATAAAGTC CAACAAAACA
66301 AAAATATGGG AATCACTGGC TGTTAGATGC CATTTAGACC AGGGACTTGA
66351 AGGGAGCACC TTGGGAAAGA GACTAGATGG AACAGAAAGT CTGAGGACTA
66401 AAGACATTGC TCTCTAATAG TTCTGGTAGA GGAGGAAGAT TCAGGAAACT
66451 AGACAGAAAG ACAACAGTCA TGAAGCTAAT CAACAAGCTA TGGGTAAGTC
66501 AGGGGAGTCT GCCATCCTGG AATCTTCCAG AGAGAAAAGT TTTTCAGAAA
66551 GGAAGGAGGG AAAACCATTT CAGATGCTGC TGCAAGGTCA AGAAGAAGAA
66601 GACAAAAAGA GCAGACCCCT TACTTGAGAA GATAAATATT GTGACCTTGT
66651 CCCAGTGTTT TGGGAGGCTG AGGCAGGAGG ATCACTTGAG GTCAGGAGTT
66701 TGAGGCCAGC CTAGGCAACA TAGTGAGAAC TCATCTCTAC AAAATATAAG
66751 AATAAAATAA TTAGCTGAGT AATCTCAGCT TCTTTGGAGG CTGAGGTGGG
66801 AGGATCCCTT GGGCCAGGAG TTTGAAGTGA TTAAGTCCCT GCACTCCAGC
66851 CTGGGTGACA GGGCAAGACT CTGCTCTAAA AAATAAAAAA AAAAATTAAA
66901 AAAATATATT GAGATTGTTG CAGAACTTTC TCCTTAGGTC AGCTAAACT
66951 GGGCTCTTGT CACATGACCA GGAAGATTA GGCTTGCAGA CACATAGAAG
67001 GGTGAGGAAA ACATTTATTG GGAGAAAAGG AAAAAGAAAG AAAAACCTC
67051 AGCAAAGCGA GAGGGAGTCT TGCCAACAAC CTCCTGCCTC ACAGATAGGT
67101 TACCACACGG AAAGTGAAGA GGCCAGGCTC CTCCCCTGC AAACAGCGCG
67151 AACTTCCCCT GGCTCCACCC ACTTCCCTCA GTGCGCAAGT GGGCATTATT
67201 TAGAGAGAAT GAGCCAGGAA AGCGCGGGCT TCATCCAGGA CCAGCAGTCC
67251 GGTTTTTCAG CCTTCAGGCT GTTTTAGACT TGGAGGCTGG GTTTCTCCGG
67301 GACCCTTGGC TGTCTCCTGT CTCTATCAAG ATCTTAATAA GAGCCAATC
67351 CACATGGTGG GACAAAAGAC CAAAGGGAGT AAAGGGAGAG GCTTAATGAG
67401 AAAATGAGAA ATTAAATCAT TTAATGAGTG ATTTTATTTT CCAAGTAGAG
67451 GAGGAGAGGT ACAAATGAG TTTTGAGATT CATGTTGTGA CAGGTAGCAA
67501 TAGTGTCTTG CCATTTCTGT ATTGTATTCC ATTGTATAAA TACTCCATGG
67551 TTCATTTACG TTTTTTACCA TTGATAGGCA TTTGGATCGT TTGCAATTTG
67601 AGACTTTCGC AGAGTACTAC TATTAACATT CTTATTTGTT CTTTGGCAA
67651 ACTCCAAAAT ATGTGTACTT TTGTACACAT GTAAACCCTA GGACCCAGTG
67701 GAGCGTAGTA CTTGATTTTA CGNCGTGTAG ATTAGAGTGC AACAGATCTT
67751 TAGTATACTT TAGCTGAGTA GAGTAGCAGA TAATGCTGGA CGAAGACGAT
67801 TGTCGTGCTC GTGTAGTAAC CTGTTCTAGT CTTGCGTGAG AGCACCTCTC
67851 TAGCCGCTGT GACGTCGTAC CTAGTGTTCA AGTAGCTGAG GAGCAGTGTC
67901 ACAGTAGGAC GTCCGCACCA GAGTTTAGTT CGGGTCGACT ATGATGTATG
67951 TGACTAGTA GTGTAGTATA GTAGTACACG AGTCGTAGAG GAGTAGCCTT
68001 AGAGANNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
68051 NNNNNATTGG AATCCTCCCC TGTGCTCTAA AGATGTGTAC TTCTTATTTT
68101 TCTACACATA TTTTGGGAATA TAACTTAAG AATTAAATCA CTGGGTCCTA
68151 GGGTTTACAT AGGTTTAGCT GGCAAACAAT TTTCAAAGA GCTTGTGCCA

FIGURE 3V

68201	GTTTATACTC	ACATCCGCAA	TGTATGAAAA	GTCAAGTTGC	TCCAAAGCAT
68251	CACCAACACT	GGATATTATC	AGTTTATTTA	ACTCTGGGTG	TTCCAGCAAA
68301	TGTGTAATGG	TATCTCCCTG	TGGTTTTAAT	TTGCATTTTT	CTGGTGACTT
68351	ATGAGTTTGG	GCATATTTTT	GCTTATTGAC	CATTTATAAT	CCCTTTGTTG
68401	GGAAGTGCTT	GTTTGACTCT	TTTAACCATC	TTTCTATCGG	TTGCCTCTTT
68451	TTCTTATTGA	TCCATGAAAG	CTCTTTATAT	ATTCTATATA	CAAGTCTTTT
68501	TAAAAGTTTT	TTAAAAACTT	TTATTTAGCA	CATACCAAGT	CAGGTGTTGT
68551	TCCAGGTGCT	GAAATGGAGG	AGAAGGAAAT	TTTCAGAAGA	TATGTGGCAA
68601	AGAGAAAAAA	GCGTTAACCT	TTGTGATTTG	TGTTATTTGT	TACTATCAAG
68651	TTGGCAATAA	TAAATATTTA	TTATAATTTG	TAACACATAT	TTAAAATGTA
68701	TTATATATAA	TATTTTATAT	TGTATCATAT	ATAAAATCAA	CAGATTTTAA
68751	TTAATTCAAA	ATTCAGTATC	TTCACTGACA	TGTGTTAGCT	TCCTAGCACT
68801	GGAATGTCAT	TTGCTTGCTT	ACATATAAAG	GTATAATAAA	ATTTTAAATC
68851	TTCTGCTCAG	ATAAAGAAGT	AGTGAATTAT	CTAAGATGTT	TGGAATGACT
68901	TAACATAAAT	ATTTCTAAAG	GGAAAGGGAT	AAATCACATA	ATTTTTCTGC
68951	ATGGAAACCA	AATAAAACAA	ATAAAAAGAA	AGATGCGTTT	ATCAGTAGGG
69001	AAAGTGTCTA	GAAAAAGTAC	ATATAACTAT	GCCTGACAAT	AGGCATATAG
69051	CCTACATGTA	ATTGATACAT	TTTAGAAGAA	AGTGTGGAAT	CATTTTTAAT
69101	ATTATGTATG	TAGAACTCTA	CCCTGAGTCA	GGAGTTTCTT	GTCATATGTT
69151	GAGGAGGGTA	GAACAGAGTT	ACTAACACTA	AATGAGACAT	TGAATAACCT
69201	ATCTTTTGTT	TTTATGGGTA	AAAAATATAG	CGACCATAAT	ATACCAGAAG
69251	TAAAAGAAAT	ACAAATTAAT	ATCTAATTTA	TTATATATAT	GGAATGAGCT
69301	GTGAAACTTC	ACCAAGAAGT	CTTTCTTTGG	GGCATATAAA	CTATTTGCAC
69351	AATCTCTGAC	CTTCTTTTTT	ACTGCAATAA	TGGTTTTTTT	TTTAACAATA
69401	AAAAATGTTT	GGACTTAATG	TGGTACAATT	TATCAATCTT	TTTCTTTATG
69451	CGTAGTGATT	TCTGTGTTCT	CTTTAAGAAA	TTTTTGCTG	GCTGGGGACA
69501	GTGACTCACG	CTTGTAATCC	CAGCACTGTG	GAAGGCCGAG	GCAGGCAGAT
69551	CACTTGAGGC	CAGGAGCTTG	AGACAAGCCT	GGCCAACATG	GTGAAACACC
69601	ATCTCTATTA	AAAATACAAA	TATTAGCCGG	GCGTAATGGC	ACATGCCTGT
69651	AAATCCCAGC	TACTTGGGAA	GCTGAGGCAT	GAGAATCCCA	TGAATCCTAG
69701	AGGTGGAGGT	TGCAGTGTGC	CGAGATCATG	GCGCCAATGC	ACTCCAGGTT
69751	GGGCGACAGA	TCCAGACGCT	GTCTCAAAAA	AAAAAAAAAA	AAAAAAAAAA
69801	TCTTTGCCTA	TGCCAACGTG	GAGCTATTCT	ATCCTGTTTC	CTAGAAGCTT
69851	CACTGTTTTA	GCTTTCACAT	TTAGATCTAC	AGTCTAGGAT	CAAGTTTTAT
69901	TTTGTCTTCA	TATAAATAAG	TAATTGACCC	TTAGCCATTT	GTTGATAAGC
69951	TTATACTTTC	CTTACGTCAC	CACAGAACCA	CATTTGTTAT	TAATCAAGTC
70001	ACCATCTATG	TATGGGTTTC	CTGACTCTGT	TCCATTGATT	CATTTGTATA
70051	CTCTTGCATA	TTTATCACTC	TGTTTTAATT	ACTGTAGTTT	TATACTGGAT
70101	TTTCAGTAAT	TCATCTTTGG	ATTATGTTGG	CTACAGTTGG	TTCTTTAAAA
70151	TTCCATATAA	ATTTCATAAG	TAGCTTTTCA	ATTTGTATTT	TAAAGCTGCT
70201	GGTATGTATA	TTGGGTACAT	GGAGTCTATA	GATTAATTCA	GGGATAACTA
70251	ACATCTTTTT	AAAATATCAA	ATTTCCAATT	CATACATTTT	ATATATATAT
70301	ATATATGTGT	GTGTACATGC	ATATACATAT	ATATGCGTAT	ACATTTCTTT
70351	ATTTATGTAG	ATATTCCTTA	ATTTCTCTCT	TTGGTTTTAG	TTTTTCATGT
70401	AGAGGTCTAG	CGTATTTGTC	TTTAGACTGA	TGACTAGGTA	TTTGATAAGA
70451	TTACAAGTGG	TATTATTTAT	CAAAATTGTA	TTTCTTGCTA	GTTTGGTGCT
70501	TATATACTAA	AATACAATTG	ATTATTAATA	TTGACTTTGT	GTTCAGTGAC
70551	CTGGCTAAAT	TCTCTTATTA	ATTATACTAG	TTGTCCCATA	GGTTTTCTTG
70601	GATTTTCAAT	ATTTACATTC	ATGTGATTTA	CTAATAGTGG	CAGGTTTATT
70651	TCTTCCCTTT	CAATCTTGCC	TTTTCTTTCC	ATGCATATTG	CACATGCATT
70701	GAGAACAATG	TTGAATAAAA	GTAGTGATAA	TGGACATCTT	TGTCTCTTTT
70751	TCCCGAGTTC	ACAGGGAAGG	TTTTCAATAT	ATCAAGAGTT	TATAAAATAT
70801	TTGCTGTAGG	CTATTTGTAG	ATATCCTTTA	TCACAATAAG	AAAGTTTCTT
70851	TTCTGTCCTA	AGTCACTAGA	AGTTTTTTTT	TTTTTTAACA	TGAATGAGTA
70901	CAATATTTTA	TCAAATACTT	TTGTTTTACT	GAGGTCATTT	CTATTGTGAG
70951	TGAAGCAAGT	TGATTTGTAA	ATATTAAAGC	AATCTTGATT	TCCAAAAGTA
71001	AATGCTAGTT	GGTCATGTTT	TATTATCCTC	TTGTGTATAT	TACTGGCTAC
71051	AATAAAATAT	TTGTTTTTTA	TATTTTTTAT	ATTATTATTC	ATACATTATT
71101	TATGTATGTT	ATTTATTATT	TATAAATATG	TATTCTATTT	ATATATATTC
71151	CTACATATAT	TTTAGGATGT	ACATAGACAA	GTTTGAATGG	TAACAAGAAT
71201	GAGCCAACCTG	AGAGGAAGAA	ATTGGTAATG	TAGTAAAGAG	CGGGGATGAT
71251	TGCCAAGTCA	GGTCCTGCAG	GTGGTGAGAT	GAATGTGACT	CAGGGCACAG

FIGURE 3W

71301 GTGAATGAGC TGACCTTAGG TGGAAGTGGG GACCCTTCCT TCATGTA
71351 GGAGAGAAAG CAGAGTTTGA AGTCTGTATG TGTGTGAGCT GCTGGGCTTC
71401 TCAGAGGGCA GATGAAATAG TTCTTATGCC ATTGCCTGTG TTTCCCTGT
71451 GGTATATGAG GCCATCCACT GAGAATGAAG GTGGTCAGAG TATAGGAAAT
71501 TTTGAGATGC CGAGAAGATC TGTGAAATTA GTAGAGAATT AGAATAGGAT
71551 TTTCTAAGTA TCCATTTGAG ACTTGTAGTT ATAATTAAAC AAGAATCTAT
71601 CCTGCAGATT TGTATTTTTT TCCTTAGATT GCACTTAATA GATCACCAGT
71651 TCATTTTTGT TGCTGTTTAA AAGCATATTG AGTTTAAGCA GGATTGGAGT
71701 TTAATTGGGT GAGGTATTCT CACTGTGACT AAGTTTGATG AATTGAAAAG
71751 CGTAGTTGTA GAAAGGAAAC TCAAGAAGGA AATTCTTGGG GAAACTTAAA
71801 GAATCGTATA TATGCAATGT CACTTTTTAA GACAACTAAT ATTTTAAAGA
71851 ATTTACTACT TTTGAGGTGC TGTACTAATA TATTACATGT ATAATTTTCA
71901 ATATCTTCAA CTACTAGTTC CTGTAAATAA GTATGCTGAT GATGACACGT
71951 TCCATTTCTT TCGATAGCCA CAAAAACAGG AAGTGATGAC AAAGCTGGAT
72001 TCTAACTCCT GACTCCCAA TTCTCTAAGA CCCTCAGCAT TAACATATAT
72051 TTTATTTTAA TGTATTATA TATGTATCAT TACTTTTACA ACTCTTAAAC
72101 CAAACATTTT AAAATTAGCT ACAACTGCAA AATCAACTTA AAAATTTCAA
72151 AGAGCCATTT AACATGATAA ATTAAATAT TTTAGTAAAA CAAAATCACC
72201 ACTGATACTT TAATATTCTT AGGTCTGAGA AAAACCATTA TGTCGTATTA
72251 TTCCTGCGTT CCTGGTAGCG TTTCTACTGC TGGACATCAG AAATAGAGAA
72301 TAGTAGAGCC CCTGAGATAA GAGCAGAGAC AGGGGAAAAG CAAAACATTT
72351 CTGAAGAGGC AGTTGGTCTA GTTTGGCTAT AATCACTAGA CGGGTAAAGG
72401 AACATTGGGT GCATTAAAAG TAGAGAGCCT GGGATGAAGG CGTGAAGGCT
72451 GAGTAAGAAT CTCTTCACTT GGTAGTAATT CTAGTTCATC CCCCTCTGAC
72501 CTGCAATTCT GAACATGGTG TAGCTTGGTC AATAAGGAAA TAAATTGCCT
72551 TTCTGGCTGG AGAGGCAAAG GGTAGACAAT ACATTGTGCC AGCTGAACCT
72601 CCTGTCTCTC CGCTCTGGAG AAGAGCCAGT CACAATGTAT GACTCAGCAC
72651 GCCGGGCACC TCTCCACGCG CAGCCAGGCC TGCCCAGCCA CTTGCTGAAT
72701 CACAAGTGGC CATTTCCAAT CCCATCAGTG ACCCAAGCTC TCCAACCTAG
72751 ACTAGTTTCT CTGTGATCGG TCTATGATTG TCATGGAGCA CAAAAAGTAT
72801 TAACTTCTAA CATTTATTTT TCTTCTCTGG ATGCTTGATG AACTTTATAA
72851 GCAAGAGACT GATTTAATTG TTCCTCATT TCACTGAGC ATGCCGTCTT
72901 GGCTTGCCCT TTTATATGGA GAGCAAAATG TTGTTATTCC CCTTGCCTG
72951 ATTACTGGCT GTATTATTCT CTGAGGTGGC CATCTCAAGA GATTCTGTAG
73001 AAAATAATAA TAGCAAAATT TCTCCCTTGA GAAGCTTCAT AAATTAAATC
73051 TCCAGAGCCA GTATATGTAA GCCGACAGAT TATGAAATAT GATTTAATGC
73101 TCTGTCCAGA GAAAGGTCAG GGCTTCAGAA AAATCATCAT AATATCAAGA
73151 AAAACTAATC TGCAACCTGT TATATGATTT TTAATAATCA CCCCCATCT
73201 TTTTACTGT GCAAACTGTA GATTTTTGTT TATTTTATTT GAGGCTATAG
73251 TTTATGTCTT GAATCACACA CATATGAGTA TTACTTTCTG TGAAGTTTTT
73301 ATGACCCCTG CAATCAAAC TGGGTCCTTC TGTTAGTTTC TATCACAGTA
73351 TCCTTCACTT TTCTTTCACA ATTCTTGCCA TATTCTATAA CTACATATTT
73401 GTTTGTAAA TATTTGTTT TCTTTTATAG ATGATTGGCT TCAGGAAGAG
73451 GGAAACCATG TCCTTTTGTT CAGTCCTTTA TTCTCAGCAC CTTGCACAAC
73501 ATGAATATAC AAAAAATATT TGTAATAATGA CCATCGAATG AACAAAGTGCT
73551 CATTAAAGTAC CAAGCTATAT GCCAGGGGTT GCTGATGGTT AGAAATGAGC
73601 AGGGCACAAA ATCTTTGTT CAATTAGTGA GCAATTCAGG CAAAAAGAAA
73651 ATATTAATGG TGATTATACA ATATAATGCA ATGCAGCCAT CTGCCACTAG
73701 ATTTACTGAA GTGTTTTGTT TTGTTTTTAA GAGACAGAGT CTTGCTCTGT
73751 CACCCAGACT GGAGTACAGT GGGTAAAATC ATAGCTCACT TCAGTCTCGA
73801 ACTCCTGGGC TCAAGGAATC CTCTCACCTC AACCTCTTAA GTAGCTGGGA
73851 CTACAGGTGC ATGCCACTAT ACTGGCTAAT TTAATAACAG AAGCCAACAA
73901 ACAAAAAACA CACCTTTTAA AGACTGGGTC TCACTATGTT GCCCAGGCTG
73951 GCCTTGAACCT CCTGGCCTCA AGCGATCATC CTGCCTTCCA AAGTGCTACC
74001 TTCTAGAGTA TTGGGATTAC AAGCGTGAGT CATCTGCACC AGGCCTGAAG
74051 CATTCTGTAA TGGAGAAATA CCTGGGTGCT ATGGAAGGGC AGAGGGGGAA
74101 ACACAGAGGA GTAACATCTA GTTTACGTTT GTCAAGGAGA GGCCAGGAAA
74151 GACTAACTAC AGGGGAGATA AACTCCAACC AAGAGTCTTT AAGTCTTCCA
74201 AGACTTACGT ACAAGTTTCT TATTGCTAAA ATGGAAGTTT TAATGAACAT
74251 TTATTTATTT ATTTGAGATG GGGTTTCACT CTTGTTGCCC AGGCTGGTGT
74301 GCAATGGCAC AATCTTGGCT TACTGCAACC TCTGCCCCC AGGTTTCAGGT
74351 GATTATCCTG CCTCAGCCTC CAAAGTAGCT GGAATACAGG AGCCTGCCAC

FIGURE 3X

74401 CATGCCCAGC TAATTTTTTTT TTGTATTTGT AGTAGAGACG GGGTTTTTGCC
74451 ATATTGGCCA TGCTTGCTCT AAACCTCCTGA TCTCAGGTGA TCCACCCACC
74501 TCGGCCTTCC AAAGTGCTGG GATTACAGGT GTGAACCACT GCCCCCGGCC
74551 TGAACACTTA CTATAAATAT TATATGGTAG TTCTCTCAA TTCATTCTGT
74601 TTAAGTCCCA AAAGAGCTAC ATAAATTCTA AGTTGTCCAC ATTTATGAAT
74651 TTTAGATATA TGGCTGTTTA TTCTGGATAA ACACACAAAA TACACAAGAG
74701 TGGGTGCGAT CACTTATATG TGTTAAAGAA GGCATTCAAG GTGCATTTTT
74751 TCTTTGGAAA AGCTTTGTAA GGCTGCTTAT GAGACAGAGA AGTAAGTATT
74801 TTATAAATTC CAAAGCTTCT TGGTCTATTG ATGAGTTTTT CTGCTGTAA
74851 AAACCTCTGA AAATTTGACA ACGTACTCTA GAGAGAGAAA GCGCTGAAAT
74901 AGGCACTGAC GTACTGCTGG TGGCAATTCA AAATGATATG CACCCTATGG
74951 AGATAAATTT GGCAATATCA AGCAAACATT ACATATACCT TTGCCCTTTG
75001 TTTTGACAAA TCTTTGTTTT AGCAAACCCT CTTCTATACA TCTATAATGA
75051 CATTAGACTG CCCAGAATAC AAGAAGGCAA CCACAGTGGG CCAGTACTAC
75101 TACTGGGCTA GATGTGGTGG CTCACACCTG TAACCACAAC ATTTTGGGAG
75151 GCTAAGGTAG GAAGGCTGCT TGAGGCCAGC CTGGGCAACA TAGTGAGACC
75201 TCATCTCTAC AAAAAAAAAA AAAAAAAAAA AATTAGCCAG TCATGGTGGT
75251 ACATGCCTGT AGTCTCAGCT ACTCAGGAGG CTGAGATGGA AGGACAGGTT
75301 GAGCCTTGGA AGTGGAGGCT GCGGGGAACT ATGAATATGC CACAGCACTC
75351 CAGCCTGTGC TACAGAGAGA GACTCCGTCT TAAAAAACAA AACAAAATAA
75401 CAACAACAAC AAACAAAGAT AGATGCATAG AGTTTTTCAC TGTTGCACTA
75451 TTTATATTAG CCAAAAACCG GGAAACAACC TGAATATTCA TCAAGTGGGG
75501 ACAGGTTGAG TAATCATGTG ACATACATAA ATTGCAGCAC TGCACACTTG
75551 AGAAAAGAAG TGAGAAATGT CTCTATTTC TAGTGTGGTT TGCTCTCCAG
75601 AGTATACTGT TAAGTGAAAA AAGCACTGTG GCCTCAAATT TATCTATAGA
75651 TTCTATACAA TCCCCATCAA AATCTCAGCT GGCTTCTTTG CAGAAATTCA
75701 CAAGCTGATC TTAAAATGTG TATAGAAATC CAAGGGACTC AAAATTCAAT
75751 AAATTCAAAG ACTAGCCAAA ACAATCTTGA AAAAGAAGAG CAAAGTTGGA
75801 GGGCTCATAC TTTTCAGTTT CGAAAGTTGT TATGAAGCTA CAATAATCAA
75851 GATAGGGTGG TCCTGGCATA AGGATAAACA TGGAACAGAA TTGAGCATCT
75901 AAAAATAAAG CCTCATATTT CCAGTCAATT GACTTTTAAC CAGGGTGCCA
75951 AGAAAATTCA ATGGGGGAAG AATTTGTCTT TTCAACAAC GGTGCTGGGA
76001 CAACTGTATA TCCAAATGTA AAAGAATGAA ATTGGAACCC TACCTCACAC
76051 CATGTACAAA ATTAGCTCAA AATGGAAAAC AGAGGTAAAT ATAAGAACTT
76101 AATGTATAAA ATTCTTCGAA GAAAATACAG AAGTAGATGA TCAAGACCTT
76151 GTAATCACTA ATTGTTCTCT AGATATGACC CCAAAGAAG AAGTACTAAA
76201 AAAAAAAGTA GACAAATTGG ACACCATCAA AATTGAAAAC TTTTATGCTT
76251 TTTATACTTC AAAGTCACTA TCAAAAAAGT GAAAAGTCAC CCCAGAGAAT
76301 GGGGAGAAAA TATTTGCAAA TCATATATCT ACTAAAGGAT GTGCATTTAC
76351 AATATACAAA GGGGCCAGGC GCTGTGGCTC ATGCCTGTAA TCCCAGCAAA
76401 TCGGGAGGCC AAGGTGGGTG GATCACCTGA GGTGAGGAGT TCAAGACCAG
76451 CCTGATCAAC ATGGTGAAAC CCTGTCTCTA CTAAAAATAT AAAAATTAGC
76501 TGGGTGTGGT GTCAGGTACC TGTATCCCCA GCTACTTGGG AGGCTGAGGC
76551 AGGAGAATCA CTTGAACCTG GGAGGTAGAG GTTGACAGGC GTGGAGATTG
76601 TGCCATTGCA CTCCAGCCTG GGCAACAAGA GCGAAACTCC ATATCAAAAA
76651 AAACAAAAAA AAACAAAAAA AAACAAAAAA AAAAAAGAA CAAAGATTTC
76701 TTCCAAGTCA ATAATAAAAA CAGAAAATGC AATTTAAAAA TGGATAAAGA
76751 ATCTGAGTAG TTTTACATTA AAAGATAAAT AAATGGTCAG TGAGCACTTC
76801 AAAAGATCCT GAGCATTACT AAACATTAGA GAAATGCAAA TCAAAATCAC
76851 AATGAGATGT CATTTCTATC CTATTGCTTT CTTTTCTTT TTTTTTTTTT
76901 TTGAGACAGA ATCTTGCTCT ATCTTCCAGG CTGGAGTGCA GTGTGTGTGA
76951 TCATGAAAAT GGCTCACTGC AGCTCAACA TCCTGGGCTC AAGTCATCCT
77001 CCTGCCTCAG CCTCTTGAGT AGCTGGGACT GCAGGCATGT GCCACCGCAC
77051 CAGACAATTT TTTTTTCTT TTGTAGACAC AGTGTCTCAC TATGTTGCCC
77101 AGGCTGGTCT GAAACTCCTG GGTGGAAGCA ATCTTTCTGC CTCAGCCCCC
77151 CAAAGTGCTG TAAGTATAGG TGTGAGCCAC CACACTGGGC CAGTACTATT
77201 CTTTAAAAAA TGGGAAATAA CAAGTGTTGG AGAGGATGTA GAGAACTGG
77251 AGCCTTTGTA CATTGATAGT GGGAATGTAA TGTGGTACAG CCACTGAAGA
77301 AAACAGTTGG ACAGTTCTTC AAAAAGTTAA ACATAGAGTT TCCATTTGAT
77351 CCAACAATTC CGTTACTCAA TATTTACTCA AAATAATTGA AAGCAGGGAC
77401 TCAAATAGAT ACTTGACAC CAGTGTTTAC AGCAGCATT TTCATAATAG
77451 TCAAAGGTA GAAATAACCC GAATGTCCAT CAACAGATGA ATGGATAAAC

FIGURE 3Y

77501	ACCACATAGT	ATGTGCCTAT	GATGGAATAT	TACTCAGCCT	TATAAAGGAG
77551	TAAAATTCTG	ATATACACTA	CAACATGGAT	GAACCTTGAA	ATCTTATAAT
77601	AAATGAAATA	ATCCAGACAC	AAAAGGACCA	ATATTATATG	ATTCCACTTA
77651	GATGAGATGC	CTAGAACAGA	CAAATTCATA	GAAACAGAAA	ATAAAATAGA
77701	GGTTACCAGG	AGTTGGAGAG	GAGGAATAAG	GAGTTATTAT	TAAATGGGTA
77751	TAGAGTTTCT	GTTAGCAATG	ATGAAAATGT	TCTAAAAATG	GACAGTGGTG
77801	ATGGTTGTAG	AACATTCTGA	ACGTACATAG	TGCCACTGAA	TTGTACTTAA
77851	AGTGGTTAAA	ATGATAAATT	ATATGATATG	TATATTTTAC	CACAATAGAA
77901	AAAAATACAA	GAAGTTACCA	GTGGGGAAAA	GGAGGGATTA	CAGAAGACAG
77951	GGATAACAGC	ACGACTTTTC	TCAGTATACC	TTGTTTTTCG	TATTTGACTT
78001	TGAAAATATG	TACATACTTT	ATATAACTAG	AAAACAAAAT	TAAATCTTAA
78051	AACAATCCCA	AAAATGGAAT	GTAAAAAATA	TGAAACCAAT	TAATCTAAGT
78101	ATATATCCAG	TTTGTGGCAT	AACCACACAA	AAATGAACTA	TTCCAAGTGA
78151	CTTTTGAACA	GAAAATTACT	ATATACCATC	AGTAGAATAT	ATCCTAATAA
78201	CAAGAAAGAA	CAGCAAAAAT	ATCTTAAAGT	GTTTTTCAGTA	ATGGCATTGT
78251	TGGGGGTAAAT	GTTGATACTG	TTATTTTGAA	AGTGTGAGT	GTATACAGTG
78301	GGATAGAACC	AACAAGTATT	TATAATGATA	TCATTGAGAA	CCAAGATTTT
78351	CATTGAGGGA	GAAGACTGAT	GAAGTTAAGA	ATTTCTGTAA	TCTTGAATGT
78401	AAACTGAAAG	CATTATTATG	AAATGTGTGA	TGTGTTTATC	TTAGTTTACC
78451	TTTGAATATG	TGTATATTTA	TAACATATCA	TCTATAGCAG	CAGACACTTC
78501	TGTCACCCAG	ATTGTCTGAA	ACAGGAAATA	TACAAGATAG	CCAGCAATAT
78551	GTTTTTCATAT	TCTACAGTTA	CAAAGCTGTC	AAAACCTTACT	AGGGTTATGT
78601	CAAACAAAAC	ATGATCTAAC	ATGACTATGT	TCCTACTGGC	TGAAGAATGA
78651	ACATTATGAA	CTGAACATCA	ATAAGAATAA	TGACATCAAA	CCCAGGAGTT
78701	CATTATAATA	TATTTTAAAG	TATATTGATT	GCTTTTGAGG	GGTTCTAGGA
78751	AACAAACAAA	TCATTTTGAA	AAGTGGTAAA	TAAAGGAAAG	ACTTCAGTTC
78801	AAGACCAGTC	TGAGCAACAT	AGTAAGACCC	CATCTCTACA	AAAAATTAAA
78851	ATATCAGCTG	AGCATTGTGG	TGTACATCTT	TAGTCCTAGC	CACTTGAAGG
78901	CTGAGGCTGG	AGGATTGCCT	GAGCCCAGGA	GTTCAAGGCT	GCAGTGAAGT
78951	ATGATGGCAC	CACTGTGGTC	CAGCCAGGGT	TAAATAGCAA	GACCCTGTTT
79001	CTGGCGAAAA	AAAAAAAAAA	AAAAAAAAAGG	AAGACTTAAA	CATACCTTTC
79051	CTATATGAAC	TGTGCCTCGG	AGTAACTAAA	TAATTGATTA	AAGCAAGTTT
79101	CTCTGTATAA	AAGTACTCCA	GCTAAAACAT	TAAGGAGAAA	TGATAGAATT
79151	CAAATATCAC	AACCCCTAAG	GAATTTTTGC	ATCAAGACAA	CAATAATTAA
79201	TGACTGATAA	CACCACACAC	AGAATACAGA	CTTATTAATT	GTATAACTCC
79251	TGATCAAGTG	CATACCACTA	TCTGTGAAAT	AGTTTTGCCA	AAAAAAAAAA
79301	AAAAAATCTA	ACCTAAACTT	GAACAAGCCT	CTAGATCTAA	CCACCAATTT
79351	TTACAAACTA	CAAAGAATTG	TGGAATGTAT	AGATTGACGT	GACATGAAGG
79401	CAATCGGCAA	AGTCCAGACT	GTGAAAATAC	TACAGCAAAC	ATTTAGGGTC
79451	TTTTTTTCTT	TTTCTTTCTT	TTTTTTTTTT	TTTTTTTTTT	TTTTGAGAGA
79501	GTCTCCCTCT	GTTTCCCAGG	CTAGAGTGCA	GTGGTGTGAT	CTCGGCTCAC
79551	TGCAACCTCC	GCCGCCCAGG	TTCAAGTGAT	TCTCCTACCT	CAGCCTCCTG
79601	AGTAGCTGAG	ATTATAGGTG	CGCGCCACCA	TGCCCAGCTA	ATTTTTGTAT
79651	TTTTAGTAGA	GACGGGTTTC	ACCATGTTGG	TAAGCCTGGT	CTCAAACCTCC
79701	TGACCTCGTG	ATCCACCCGC	TTCAGCCTCC	CAAAGTGCTG	GGATTGCAGG
79751	CGTGAGCCAC	TGCACCCAGC	CCACCCTTGG	TTTTTTTCAA	CAAAAAATTA
79801	CTAGAAATAA	AAGAATAATA	GTTGGTCAAG	GAAGCTGTAG	AATAAGAAAG
79851	ACTGCCACAT	ACATCAATGG	CAGTGGGCGG	GCTTTGTTTG	AATCCAACCTC
79901	TAGCATGCAA	ACATTTGATA	AAAATTTCTT	TATTTAAAAA	GAAAAGTTTA
79951	CAAAACAATC	AGAAAAAATA	AAAAAGATTG	AGGATCTCAG	GACAACTACT
80001	AGCCTAGATA	ATTTATAAAG	ATTAGATAAC	TGACTCATT	TTATTAGTTT
80051	CTTTCCTAAT	AAGGCAATAT	GTATTAGATA	TATCAGAGTA	GAAGGAAATA
80101	TTTTTCTTAC	ATCTATTTGG	CTTTTAAAT	ATAAACATAT	ATAAGTAAAA
80151	ACCAAAATGA	TTTATAATCC	CACCATTTAT	GTAACATCT	TATTTTCAAA
80201	AAAAATTATG	CAAATACTAG	CATTTGTGTG	CTTTTTTTCC	TTTTGTGTTT
80251	GTGTGTTTAT	ATCCTTTTTA	AATATATCCT	TTTTATGTAC	CTAAGCAGCT
80301	GTATACTATA	CTGCATACTA	TAGTGTGAAC	TTTGTTCTTT	TCCTTCGTCT
80351	TTACAACATA	TTGTGGAAAA	CGTTCCATAT	CAGAATATAG	ATATGCCTTT
80401	TTGTAGCCAT	TGAAATGCAA	AGAAAAAAG	AATATAGATC	TGTCTCATTT
80451	TTTAAAAATG	CTGTATAATC	TGTAGCACGA	ATTTACTATA	ATTTATTTCGC
80501	ATGCTCCCTT	ATCGATGGGC	ATGTAAATTG	TGTTAATTTT	ATATGATATA
80551	ATGAGTATCC	TTATATGTAT	ATCTTGGCAC	AGTTTTTCGA	GTGTATCCAT

FIGURE 3Z

80601	AAAGTTTCTT	GCAATGAAAT	TATAGGGCAA	CAAGGGTGTG	GTGGCTCTTG
80651	TCTGTAATTT	CAACACTTTG	AGAGGCTACG	GCAGGAGGAT	TACTTGAGGC
80701	CAGGAGTTTG	AGACCAGCGT	GGACAACATA	GTGAGCCCTC	ACCTCTACTA
80751	AAAATTAATA	AAAAAAAAAA	GAAAAAGTTT	GGTATGGTGA	TATGTACCTG
80801	TAGTCCCAGA	TACCCAGGAG	GCTGAGGTGG	GAGGATCATT	TGAACCTGGG
80851	ATGTCAAGGC	TACAGTGAGC	TATGACTGTG	CCACTGCACT	GCAGCCTGGA
80901	TGACACAGTG	AGACCCTGTC	TCAAAAAAAAA	AAAAAAAAAAT	TACAGGCCAA
80951	ATCCATATGC	TTTTAAAGGA	TATTTTTGAA	TTGTTCTCAA	AAAGAGGCTT
81001	CACCAAATTA	CCATCCAGGG	TATACAAGAT	ACCCATTTCT	CCATGTCCTT
81051	ACCAACAGTG	GCTCTCATCA	AGCCTTGGTG	GAAATGCTCT	CATACTGATA
81101	CTTTAACGAC	TAAAAGTCAT	GACATATCTG	CTTAGGTTGT	AAATTGCCTC
81151	CCTCTAAACT	TATACAGAGA	GAATTTAGAG	TGTTGTCTCA	GCTTGGTTCC
81201	AGTGTTATCC	AAGCCATTAA	CCTTTGTTTT	GCCTTAGATT	GTCACATTGT
81251	GGTATTTTCA	TTAAAAAACA	AAAACACAAC	TGGTACTTTT	TTTTTTTTTT
81301	TTTTTTTGAG	ACGGAGTCTC	GCTGTGTCGC	CCAGGCTGGA	GTGCAGTGGC
81351	GTGATCTTGG	CTCACTGCAA	GCTCCGCCTC	CTGGGTTCAA	GCCATTCTCC
81401	TGCCTCAGCC	TCCCGAGTAG	CTGGACCTAC	GGGTGCATGC	CACCACCCCC
81451	GGCTAATTTT	TTGTATTTTT	AGTAGAGACA	GGGTTTCACC	ATGTTAGCCA
81501	GGATGGTCTC	GGTCTCCTGA	CCTCGTGATC	CGCCCCGCTC	GGCCTCCCAA
81551	AGTGCTGGGA	TTACAGGCAT	GAGCCACTGT	GCCTGGCCAC	AATGGGGTAT
81601	TGTTTTTATA	GACTGTTGAA	ATCTGCCTTT	GGAAACCATG	GGTTTGCTGT
81651	GTTGTTATGG	TGAATGAATT	AGGTGCACAA	TACTAGTTTT	TAAAAAATGA
81701	ACTTCACACT	AGGTACACCT	TGAAAAATTA	TTCCAGAGCT	ATAAGAAGAG
81751	CTATAAGAAG	AAAAATATGA	TGGGTCATTG	CTCCAAAGAA	AGGTTTTAAA
81801	ATGTAAATTT	GTACTTAATG	AATAGGACAG	TGTACCCTAA	CCTCCTCCTT
81851	GCTATTCTTC	AGGGATCTCT	TCTAACAAGG	GCTAATGCTT	CACCTAAGCT
81901	GTGAAAAGCC	TGCTGTGAGC	ACTCCCTGTT	CAGGGTCAGA	AAAACACAAT
81951	GAAGTGTCT	ATCATTTTAG	GTTCTAGGAC	AATGTTCTCT	TGCTTTTCCT
82001	TGCTCAGAAT	GGACCCTTGC	TGGGGTAGCA	TCAGAATGAG	GATCTGGTGC
82051	AACAGTCTCT	CAATAGGAAG	TAGGTTCCCC	TACTATCATG	GTTTTCAAGC
82101	TTTTTTGACT	GCAGCCCATA	ACGAGAAATA	ATGTTTTTCA	TCATAACCCA
82151	GTAGATATAC	TCACAGAGAC	ACAGTATATT	CATAAAAAAA	ATCATAACGT
82201	TTAACCTTAT	GTTAATAGCA	TTTATCCTAT	GTTATTCAAT	CTATTTTATT
82251	TCTTTTTAAA	AAATGCTCAT	CACAGTTAAC	TAAACTGATT	TCACAACTCC
82301	TTAAAGGAAT	TTGACTCACA	ATTTGAAAAA	CACTGCATTG	TAGAATATTT
82351	TAGAGTCTCT	TCCCAACCCT	CAGAGTCAGA	TTTATTTCAA	GATGGCCCCCT
82401	GTAAGACAGC	TTCAAGCTTG	TGAGTGACTT	TCTTTTTTCT	TTTTACTTCT
82451	TTACCATTTA	CCATGACTCC	CAAATAAGTG	ACTCTTTTGG	CTTATTTGGT
82501	AACCATGCTA	ATTTCTACAC	ATAGAACCTA	GAGCATTTAC	ATAAGACCCA
82551	CCCAAAGCTT	GTGTTTTAAC	CTTGCTTCTC	TCCTTTCTTT	CTTTGATTCA
82601	TTGATTATGT	TTTCTATTGC	TATCTGTTCA	ATCTGTGTTT	CAGGCAGTGT
82651	ACAGGTACTG	AGGCAACAAT	GGTGAGTAAA	AGCAAGCATG	CATCCTGAGA
82701	TATACTGGGA	ATGAAAGAAG	CTAATCCAAA	AGCATACAGG	AAAATATTTT
82751	CAAACTTTGA	TAAATTCTGT	GTAAGCATAT	GGCATTGCAC	GTAACAGGGG
82801	AACCGCATTT	AATATGGAGT	GTTGGAAAAG	GCTTCTGTGA	GAAGTGACAC
82851	TTGAGCTAAG	ACTAGAAAAG	TGAAAAGAAT	ATAACCAGGT	ACTGGACAGC
82901	ATCATGAGTG	CAGGCACAGG	TGACATCGTA	TCACAAGCTT	CTAAGGCTGA
82951	AGGGGGCGTG	AATTGCTAGC	TGGAGAGTGG	AAGGAAAAGA	TCTTCAAGAT
83001	AAAGCTGGAA	AAATAAACAG	GGCCAGGCCT	CATAGGTTTC	TGTAGACCAT
83051	GGAAAGAGGT	GAAGGTTATT	TTGAGCCTGG	ATGACATGAT	AAAATCACA
83101	TTGTAAAAAT	ATAACTGCAA	GGTAGAGAAT	GGATTGAAGA	GGTCCAAGAT
83151	TACGCAGACA	GAGCTATGAA	CAGCCTATTG	CAATGGTCTG	GGTCAAGCAT
83201	GATGGAGTAG	GGTTGGAATA	GGGTGGTGAA	CTTTTATTAG	TTATCTTCCT
83251	TACTGAGCAC	ACTTTGCAAT	GAATTTCAA	TGCACTGGGA	CCAGACTTGT
83301	TAATTTTGGA	GCTGTCGACT	AACAAATAAG	TAAGCCATGA	TAACCCACCA
83351	AAGAAAGTTG	CAGAAATGCA	AGAGCAAGGC	TGTGATGAAT	GGTTGAGGTA
83401	CAAGGAAGCT	CTTACTCACT	CATTTTAAAA	AATCAGATGA	TATGAAGTTG
83451	AATATTCAAG	ATATTGCCCA	ATTGTGTTAT	GTTACATAT	TTTACTGGGC
83501	ATAGTTCTGG	ATAATAAAAT	ATTTATCTTC	TCTCCCTCTG	AGAATTAAAA
83551	ATCTGAGATG	GAGGCCTCTG	ATGTGCCAAA	GGAGAAAGAT	GATTTTTAAG
83601	AGCCAAACGT	GCCTCCATGA	TTAAATACAT	TTATATTTCT	ACTGGCCAAG
83651	GAAAGCATGT	TGCCTCTTGC	CTGGGCCTCT	TCTGTCTTTG	ATTAATAATC

FIGURE 3AA

83701 CCCTGCACAT TCGAACACTG TTATTAACCT GCCACATTGG CACCTTTATC
83751 ACTTTGTTCT TTGAATAAAA AGAGCTTAAC CCAAGTCCCA GTAAAAATGT
83801 TCATTCAGGC TGAATTTAAG AAATATATTC TGCTCCCTTG GAGTTAAATG
83851 GAATAATAGG AGAAGAGTCC ACTTGACTGT TACCAGGTTT CTGAACTACA
83901 CCTGGCAGCC TAACATAGTC AACAGCAGGG AGTGAATCAC ATCTGCTCTG
83951 TATGCTAACC CGGTCTGAGT AGGTGGTTTG CATTGGCATC TAATTATTTT
84001 TATGGTTAGT ACTCTCTTCT CCTGACTTTT GGTACCAAAC CCTCACACAC
84051 CTCATTATCC CTATTGCATC TGCCACTCAT CCTAAAAGGC CTTGCTTACA
84101 TCCCACAATC AATCATTCTT TCTCTTACCT TAGCGGAGAA CAGCCTGAGG
84151 TGCAGCAGGT CCCAGATATG ATTACAGTTT CACCAGTTCA ATATTGTTTA
84201 CTGAATGGCC TGTA AAAACAC AGTGAATATA ATTTGTGTTG CTGCAGTTGG
84251 AAGGCTTACA TACCACATTG CCTAGAACCA AAGACCTTTC CTCATGCCCA
84301 ATACACCAAT GGCAGAGATG ACCAGCCAGT CACTGCATCG AGATGAAGAA
84351 TAGTATCTCC CAAAAGGCAA TACCAAGCAT ATGTTTCTCA GGCTTTTACA
84401 AAACACTTTT TAAGTTTCTG TCTAAACTCC TCTAAGAGCT AAATTTTCC
84451 AAGACGTATT CTGTGTAAAT CAGTCTTCAG TGATAAACAA AATTTTATTT
84501 ATTGAACTAT CAGGTGCTAT TAATGCTAAT TAGAATGTTA CCACCTCAGA
84551 TTAATGCTTC GTTGAATTTT TTTTTTTTCT GGTGTTTGTA AGTATTCCTT
84601 TTCTCCTTCA GCACAATGAT AATTATAAAG AAGAAAATGT ACTAAGTGCA
84651 TTTCTCCCAT CATTTGATAT TTTACATTTA TTTCTCAGC AAATAATTTG
84701 TCACAAGGAA GTAATGTGCA TCCCTGGGCA CTGCTTGCAG GCACTTAATT
84751 CTTGATTCAA ATGAAACTTT AAAATGTTTT ATCCATGATG TTATGTCTAA
84801 AGAAACATGT CAAAGAAACA TGTCAGAGAA CTTGACTTTG AATAGAAATC
84851 ATGGCTGTGC TTTGAGGGAA ACAAAATAAA TCACAGAGGT AGGAATGCAT
84901 AGTTACAAGC TACTGTTTGT ACACAGCAGA GACCAATTCT ACTCTCTGTT
84951 CTCATTTCTT CTTCTAATTC CTCATCCCTA CACTCCTTCC TGTGTGAAGC
85001 CCATGTCTGA TCCTGCCTAA TTCAGTGACT GGGGGTCACT GCAGATGCGT
85051 GCACAGGGTC CTGTTATGGG ATCCGGATTG TGCCGCCTTC TCCAGACACA
85101 AGTTTCCCCT CATACTGTT GTTCCAGCAA ATCCAAGCTA TTCTCCTTTC
85151 CCCACTTGCA CTAGGTTCTT TCCCTAGTCT GTGCTTGCAT GCATCCTATT
85201 TTTCTCTGGT ATTTTCAAA TTTTACTTTG GCACCTGGAG AACGTTTTTG
85251 CACCACCATT TGTCAGGTGT TTAACCTTGT GCATTTCTCT GTGTGAATGG
85301 GAGCGTAGGT CCAGCATCGT GAGGAAGGAC TGGGGTCACA CTCACAGAGT
85351 GTGTCAGAGC CCACAAAGTC ACTCAGTAGA AACATCAGGA GATGTTAGCG
85401 TTATTTTTCA GTTATTACTA TGATCACCAT TCCTCAAAAT TGAGCTCTGG
85451 TTTTACCTCT CCTGACAAGC TTTCTTTTAC TTCCCATCC CAAAGACAGA
85501 GTGAATTACT TCCTTGTAAT GTGTGCTTAG TTCTTCATTG CCCTTCTTAT
85551 GTGTTTTCTT TATCATTAAT GTGGGACATG ATCTGTTATA ATGTTGCTGG
85601 GCAATGATGT TGTTAGTATA GAAAAATGGG CATGAGGATA GTTCAAGGAG
85651 TTCCCATAAC TCATATTTTA TGGGCCTTCT GCAATATATG GTTAGGATAC
85701 AACCATTAGC AATAAATGGA TAACTTGGGT TCTCTTCATT TTCTGTGTTT
85751 TATTGCTACA TGAATAAACA GTTATTGAGT GCTTACTGTA TGTCAAGCAT
85801 GACAATAAGT ATTATAATTA CCCTGTTTAT TCATCAGTAT GATCAAATGT
85851 GGTTATTATT CCCATGTGAC CCATGAGGAA ACTAAAGGCC TAAGGTGATA
85901 GAGCTAGTGA TAGACCACCT ACTCCCAAAG TCTGAGCTCT TAGCTCAAGA
85951 ACACTCTGCT CTGATCTGTA GGGTCTCATT TGTCTCTGAG ACTCTTTAAT
86001 GTGTAAATAT ATTTGATAAG TTTTCTCTTC TAATGTAATT CCAGGTATTC
86051 CTTCCAAGAT GAGGAAGACA TGTTTATGGT GGTGGACCTC CTGCTGGGTG
86101 GAGACCTGCG TTATCACCTG CAACAGAACG TCCACTTCAA GGAAGAAACA
86151 GTGAAGCTCT TCATCTGTGA GCTGGTCATG GCCCTGGACT ACCTGCAGAA
86201 CCAGCGCATC ATTCACAGGT CAGTCAAGTC CAAGGAGATG GCCATGAACG
86251 TAACGCAAGG AGAGAATCCA CAACTGGCTA CTTCAATAA ATTCTTATTG
86301 AACATGACAT TTAATCCCCG TTTAATTCTT GAAACAGTAC CCTGAGGTAG
86351 GTTGATTGTC TTCATTTTGC AGATTTTGTA AAAGACTGAA CACATAGAGC
86401 TTAATTTGCC AAAGGTCACA GTAAACAACA AGATCACAAT CAATGAATTT
86451 TGGTACTATT TTATAACTAA GCTTAGACAA AAAGGAGAAA AGGTGACATA
86501 TAGAAACCTA ATAAATATTA AGTAAATAAT TAAATGGAGG TAGCACATGG
86551 AGGGAAAGAA ATAGAATGAA AAGAAAGAAA GTTCTTTGGG AAAAAAGCTT
86601 GAGTCTTTCT AATATTTGCT GTCCTGCAGT CTATATTAAG TTAATCCCTA
86651 ATGTATGTAC TGCAAATGGA GGTAGAAAAA GCAATAGCAA TGTCTTCTGC
86701 ATTTAGAGCA TTAGTAGTAA ATAAAGACAT ACAAATAACA TAAGAAACCA
86751 TAAAGCTATA GAGATAATAC AGAGAAAAGG ATAATACTTT ATAGTAAAGA

FIGURE 3BB

86801 AATTTGTAGT TTCAATGATG ATTTTATATA TAGTATCTCA TTTGATCTCT
86851 GAAATAACCT GAGATAAATG ATCAGAGCAG ATATAATTAG ACTAGAATTA
86901 CATATGAAAA AATCATGGCT TGTATACATT AAATTATCAC CCAGTTTACT
86951 TATATGAATT GTAAACATAT CAAACATCAA AACATCTACT AATCAACATC
87001 AAAACAACTA GTGTTTACTG GTTGATGACT TACTATGTGC CAGGCACTCC
87051 TAGGTACTTT ATGTACATTA GTTTATTAAA TCCTCAAAAC TCAGCAAAGA
87101 TTCCACATTT CATTATAATA TTCCCATTAC ACAGATAAAG AAACTGTCTC
87151 AAAGGTTTGC CAAGGACAAA CAGCTAACAA ATAGCGTAGC CAGGATTTAA
87201 ACCTAGATCT CTCTGACCTC AAAGTCAGAA TTCTATGATA CCAATTCACA
87251 TTA CTTACAC ATATGAAATA TATGCATTAA TTGATTATAC ATCATTAAAT
87301 GAAAAATCAG TACATGTGAC TCTGCTGCTG TCATCTCTAA TCCTTGAAGA
87351 ATTTGCTGAG ATTTTAAAGTA CAATTATGTC TCAATTAGTA AAAAGTTGGC
87401 TAGATAAAAT ATTTGACCAC CACCAGTTGA CATTGACCTG TAATTTATTT
87451 TTTAAACCTT TATATATATA TATATATTTA GAGAGATGGG GTTTCACCAT
87501 GTTGCCCACT CTGGTCTCCA ACTTTTGGCC TCAAGTTGTC CTCCTGCCTC
87551 AGCCTCCCAA AATGCTGGGA TTACAGGAGT GAGCCACTGT ACTCAGCCTA
87601 TAATTTATCT TGATGAGTAC AGAGCCTATA GATGAAGGTG AAGCATCAGA
87651 ATTTATAGAT TCTCTGTGCA GGTACCACAG GCCAGTTCTT TTATTTATTT
87701 TTATTTTTTT GGGCCTTGGC CCTCTACATT TAGTTTTTAT TTAATGTTCC
87751 TTCTTTGGAA GGGCCTGCTT GTATTGGAAG TGTGCTCTTC AGGCACCAGA
87801 TAAATGAAAG CAGACCAGTT AATTACGTAG GATCTCAGAA GTGAATTTGC
87851 ACACCTGGTG TTTTTTCAA TAACTAGAAA TCCTGTTCTC AAGCACTCAT
87901 CTTCCCATAC TGGTTTTCTG GTCCCTCATA GCTCTTCTG AAGAGAGACT
87951 GTTCATACTT GTTAGTCTAT GGAGTCCCTC TCAAAACTTT CCTGCTCGTT
88001 CATTCTCCCA AAAATTGCCA ACCACAGCCT ATCTTGGTTG TGACATCACA
88051 GATATCAGAA AGAAGGCAGT GACCTTGAGA AACCAGCATG GCCTCAGAGC
88101 CTTTTCACTC TCTCTCCTT TCCTGTTTGA AATTGGGTTT TGTCCTTCT
88151 TTCTTTAGGC TTCATGTTCT TGGTCATCAA AAGACCAATT CTCTGAGCAT
88201 TTTCTCCATG TACTTAGAAC TGTGTTCCAA GAGGAATTCA GGAGGGAAAA
88251 ACAACAACAA AAATATTGAT ACAATTTTTC CCCAAGGAGC TTAATAACAC
88301 CCAATACTGT TTTTCTGTTC TTTCCCTCTC TTTTTTCTC ACCGTTATCA
88351 TCATTTTGCC ACTTAAATCA TAAACCAAGG ATTAACCTTC TGGTTTTTTG
88401 CCCTTCAATC ACATCCACAG TTATTACTTA GTGCCCGTTC TCAGAAGGGC
88451 CTTTTTGTAC TGAAATGTCT CCTCACCATG GTAAAGGTAT GGAAGGCAAA
88501 CAGGATGACA TTTTGAGTGC AGTGTTAAAT TGAGGTGACA TCCTTCTGGT
88551 GTCAAAAACCT ATTCAGGTGC ATTTCTGTAA CCTCTATGCA CCTCTCCCCC
88601 CACCTCCAG GTGTTATATT TTACAGGCTG TCATACCCTT TTGTACCTCT
88651 CCTGAGGAGT TGTGACATTT GGTGTATAAT TAATTCATTT GTCTCCTTTA
88701 TAAAATTGTG AACTCTGCAT GTTTTGCTTT TCATTGTATA ACCAGTATGT
88751 GAAAAAAATA TGAGCCACAT GAATGAATGA TTGACCAGAA GTTCAGGCTT
88801 ACAAGTAGGA AATATTCAAA TATAGGACAT TAAATCCAAA GGCCTCAGAC
88851 CTACTTGTAC CTTGGTCTTT ACATTAATCA TGTTATTTAT CATCCAAACC
88901 AGGATACTCT GAGAGCTAAA GAGGATGCTA TTAATATTAA TAGCACTGGG
88951 AAGAGTCAAA AGCCATAAAT AATCTAGGCA ATTCAGGACC TATGTCAACA
89001 TCATTAAGGC TTTTCAAGGC AGTGTTTTTT GGTTTTTTAT TTTTGTAGA
89051 GACAGGGTCT CCCTATGTTG CCTAGGCTGG CCTTGAAGTC CTGGGCTCAA
89101 GCAATCCTCC TGCCTCAGCC TCCCAAACT CTGGGATTAC AGGTGTGAGT
89151 CACCATGCCC AGCTTCAAAT AGACATTTTA ATTCTGACAG TGTTCTGATA
89201 ACCAGGATTT TCTGCTCTCA GAATACCAGA TATCAATTTG AAATGGTGTC
89251 AAATAGCTTT TTAAAAAGTG TACATGGTAA AAGAAGCAGT GATCCCTTTG
89301 TTTAAGGAAT TTAAATGATA ATAACCTTGT CAATCTGAGA CTAAGAAGTC
89351 CTGGGCCAGA GAGTGCAAAA AGCAATACAG AAGAGATACA GGCTTCTGAA
89401 TACTGTAATT CTTTTTTAAA CCTCCTTCTT CAAAAGAATC AGCCCGATTG
89451 ATGTTGTACT TGAATTCAAG ATAACAAAAC ACCTTTTAGT TACTTAGAAA
89501 GATTAGATTG TAAAATATGT GCTGAGTTCC TAGAAATTAA AAGTGAGAAT
89551 GAAAAAAAGA ATCAATGAAA GTACAGTAGA TCTCCCGGAC AAGGAGAGAC
89601 CATCTGCATA AACTGAAGA TATAAAATAT GTGACTTCCT ACTTTTAGAT
89651 TAAAATCTAC ATTTTGCCTT TGGACATGGT AGAAGATTCA AAATTACCCG
89701 TAAACAGTCA GCACTACGTG GAAGTAGGAG CAGCAGTAGG CTGCTGTTTG
89751 CTTAGGGTTT CCTGGGTACC AGGCTGCCTG CTAAGCACTT GTGAGTTATT
89801 TCACTCAGTC TTCCCATAGC TCCAGGAGGT TTATGGCACT TTGTCCCAT
89851 TTCACCTTCG ATGAAACTCT GGTCTGAAA AATTACTTGC CCAAGTTTGC

FIGURE 3CC

89901	ATGGCTATTA	AGTAGGGAAA	GCATCATGTT	TAGGAAATGC	AGAGCTCTTC
89951	ACCACTCTCC	AGCCTGCAGA	TGCTCAGCAT	GGCTGCAGCT	CTGAGGGGAG
90001	CGCGGGACAC	CTATGCATGG	CCACCTGCCT	CAGGCACCCA	CAGACGAAAG
90051	TGGTACATGT	GGAACGGACA	GACAGAGAAC	AGCCTAAAAT	TGGAAGCTAA
90101	ATTGTGTGAG	AAAGACAAGT	ACTTCAGAGA	AGATAGTGTG	GAGTCGCAAA
90151	ATAAGTTTCA	TGAGAGCTCA	TACAGAAAAC	AGCCTAAAAC	TAGAAGCTAA
90201	ATTGCGTAAG	AAAGACAAGT	ACTTCAGAGA	AGTTGGTTGG	GAGTAAGAAA
90251	GCAAGTCTCA	TGAGAGCTCT	GAGGGGTGTA	AATGGGACTT	TTAACAGCCA
90301	AAGCACACAG	CAAGTCTAGC	CTAGCAAGAG	GAGCTCAATG	GATGGAAGTC
90351	CTCACTTGTT	TCCCTGTGTT	AACATAGAAG	GGGGTCTTTT	TAAAATTTTG
90401	TTTTCACTTC	AGCTTTTCTG	CCAGAAATGT	CTAGTGTAGT	GATGTTTTAA
90451	AAAAAACCTA	AGTATCTGTT	TCCGCCACAA	ATCCCCATTA	AGACATAAAT
90501	GGAGTTTTAT	TTTGTGGATG	TTTAAAAATC	CATGGACTTG	AACTTTTGGT
90551	AGTTTCCCAA	ATATGTAGAA	TATTCAGCTA	GTTTTCTTCA	ATTTCAGAAT
90601	CTTTCTTTTC	TATCATTGTT	AAAGACACAG	GGTTGCATAA	TAACCATTAA
90651	GTTTGAATTG	TGCAATTAGA	CAACTTTCTT	ATTAGTCAAG	AAGTCAAAC
90701	TTTTGTGTGA	GTACAGCTTG	AAAATCAGCT	TTAGTTTCCA	AAGAATGGCC
90751	AGTTTGAAGT	ATAATATTCT	CTTTTGCTTA	CTTGAAATCT	GCAAATAAAT
90801	GCTTTAAATT	AGGGACAAAG	TGATTATTTG	CTTTTATTTA	AAAAATAAGG
90851	GAAACAAAAC	TCATTACAAT	CTCTTCTACA	GGGTAGTAC	TATTCTATTT
90901	GTTGATTGCC	TCAGCCTCTC	CAATGAACAA	TCTGGTGGAA	AGTAATTATT
90951	TAATATTATA	ATCCAAAGAC	AAATTTCTGT	TTACTCCCTT	GTCAGATCTT
91001	AAAGTAGACT	CAATTATGAA	TTTAAGCTAA	TGAGATGGAT	TGTATGGGAC
91051	AATTAAATAG	TAAGTCATTT	TGGGTCAAAA	TACCATTTGA	GAGGATGGTT
91101	GATTGTTTTT	TCCCTCTGAG	AATTACCCCC	CACTATAACG	AGGTTATAAC
91151	TCAGTGTTTG	CTAAATTTT	ATAGGAATGA	GATAAAAAAT	CTGATTAGAG
91201	TAATTTGTGC	AAGTAATTAC	AGTACAACAG	AGAGAGTTGC	AAAAATTTCA
91251	TTTCCCATTG	AGTACCGAAA	TGTTGAAGAG	AAATAAAAAG	AGATTTATGG
91301	CTGTGTAGAA	AAACACAGGA	TGGTATTTTT	ATTTATCACC	TTTGCCTTCT
91351	TTGCTGTTCT	CATTGGAACC	AATAACTGAT	TCCAGATTCA	TCTTAGGGAC
91401	TGTATAAGAT	GCAGATAGAA	ATTATTTCTC	ACACATGACC	TCTTGGGCTG
91451	GAGTAGCTGC	TTATGAGATG	TTCCTATCAT	TCTTCTAGAA	ATCAGTACCT
91501	TGACAGTGAA	GAAAAAAATC	TTAGGAATAA	TGCTTCTAGT	CCAAATATTT
91551	ATTCAAAAAT	TATTTACTGG	GTACCTATTT	GCCAGTG TTC	TGAATGCCAG
91601	GCTCCCATGG	GGAAGAAGAC	AATCCCCCTG	TCATAAGAAG	TTGTTAATAT
91651	TATAGTGTGA	AAAATAGTCA	AGTAAACACT	TCAACATTAA	TATCAAAAGG
91701	CTTTTAAATG	TTGTGGCATG	TGCCATAAAG	AATGAAAGCT	GTTATGTGCA
91751	TATCCTGAGC	GATGCATGTG	TGCCTGCATG	CACGTGCACG	CACGCACACA
91801	CACACACAAT	ATGCTTAGTT	GCGTCTTCCC	AATGCTCATG	GTTATACCTC
91851	TAATTGTAGC	CTCTGGACCA	TGATATTCTA	TATAAAAAGC	TGTCTCCCCT
91901	CTCCAATCTT	AAGCCCTCAT	AAGTGGATAC	TACACCTCAC	TTATGTTTTA
91951	ATCTCCAGCA	ACTTGCACTG	GATCTAAACT	AGAGTGCTTG	CTGGATAATT
92001	CAATGACTGA	ACAAATGAAT	GAGGACAGTA	TGTATATGTA	ACCATTGGGT
92051	GAGTGCAGAA	GGTAAAAGTT	GCTGTGGAGG	ATGTCGTCTT	CAGCAAATTC
92101	TCAAATTTAT	TCCACACATT	CCTCTGTGCA	TCCACAACAT	GTGGGGTTCT
92151	GGTCTGCCTT	TCCACTATGC	TGGATTAGTT	TTGTATGCTG	TGTAACAAAT
92201	TCCTACAGTC	CCAGTGACCA	GAAAGAACAT	ACCTTTATCA	GCTCGCAGTT
92251	TCTTTGGGAC	AGGTGTCTGG	GCACAGTCTA	GTTGAGTTCT	CGGCACAGCT
92301	GCCATTAAGA	TGTCAGCCAG	AACTGGGTTC	TCTTCTGGAG	GCTGAACTGG
92351	GCAAGAATCC	ACTTCCAAGC	TCAGTCAGAA	TGTTGGCAGG	AGGTATTTCC
92401	TTGTGGCTGT	AGGACCCATG	GTGGCTACTT	TCTTTAAATT	TAACAAGGAG
92451	AAGAATACCG	TAGAGTAAGT	TGGCTAGAAA	GAAAACAGAG	TACACATACT
92501	TGAATGATGA	TATATAACAT	TGTAACATAA	CTCAGTCACA	GAAGTAAGAC
92551	CATCACATCT	GCCATGTAAT	GTCGGTTAGA	AACAAACCAT	GGAACCAGCC
92601	CATGCTGAGG	GGCTGGAAAT	TATGCAAGGG	TGTGAACACC	AAAAGCTGGG
92651	AATCCTGGGG	GTCACCGTAC	ACAGTCTGTT	CACATTTCTT	CTAAAGAAGT
92701	TGCACTGCAT	CACAGTTCCA	TACCAATTTT	TGCTATGACC	TTAAATATAG
92751	CCCTGAACTT	CCCTGTCAAG	GAAGAAGTGA	GGAGGTTTCA	ACAAGTGATC
92801	AGTAATGATT	CTTTTATGTC	TAAGATTCTA	GGATGATTTT	CTCTCTGCCC
92851	TGGTAGGCTG	CTCTTCAAAG	TATGACCTCC	TCATTGTTTC	TCTGCTCTAC
92901	CACACACTCA	TTCCCCTCCA	AGAAGGCTGC	CCACCTGTAA	TGACCTGTCT
92951	ACAGAGCCTG	TGATAGTGAC	TTGTGATAAA	TGGCTATTAG	CACATTTACC

FIGURE 3DD

93001 AATCAAGGTC CTGTTTGCAA TTCGGTTGTG GGTCAAAATT ATGTTTGTTT
93051 TAACTGAGGT CTTTAGTTTA TTTCAGGCAG AGATCTGGGC TGGAGTGTCA
93101 CCTTTGTGTC TAATTCTCAC ACACTGTACT ATCTTAGCAG TCACATTTTA
93151 TTTTCTTGAG ATGATAATTT ATAGGAAAAA ATAAGACATT TCTGCAGCTA
93201 ATCATTTTAG TCAATGATCA TTGAGTGACA GGTGAGCTCC TAATAAATAA
93251 ATTTGCCAAC ACAGTGACAC CTCAGGTTTC TGAAGCCTGT GGAATGAGT
93301 CATCTGGAAA GATGTTTTTC TAATTCCTGG AAGTATTTCA GAGATTTTAA
93351 ACTATTTAAT TTATACTACA AAGCACCTAT GTCATTTTTT TAATGACTTA
93401 ATAGGAGCTA TCACTTATTG TTTACACCAA GAACTGCGTA CTGTGCTAAT
93451 TGGCAGGTTC CACACACCAC CTAACCTGAT AATCAACAAT TCTCTGAGGG
93501 GATTAAGCAA CTTGCCAATA TACAGTCAGT ATATGGGGAC CAGATTCAAA
93551 TGTAGAATTA CCTTCTTCAA AGGCCCTGTT CTAGGTATAG ACGCTCTTAC
93601 TTTCACTCTT ATAATAATAA GATATCCTCA AGGTCAGATG AGCTGTTTCA
93651 TGCTGTTTAC CAAATAGCAT AAAACTTCAG TTTAGATACA TATTTTAGTG
93701 GGTAGGTACT ATATGTTAAT TTGTGCTCCC TCAGAAAGAT TTGTTGAAGT
93751 CCTAACCTCC AGTGCCTCAG ACTGTCATCT TTTTGGAAA GAGGGTTTTT
93801 ACCCAGATAA TCAAGTTAGA ATGAGGCCAT TAGTGAGGC CCTAATCCAG
93851 TATGACTGGT GTCCTTATGA AAAGAGGAAC TTTGGACACA GAGGAACATA
93901 CAAAGAGTGA AGATGATGTG GATGTAGAGA GACACAGGGA GGATGACAGG
93951 TGAAGATGGG GGATTGATGT GATGGGTCCA CCAGCCAAGG AATGCCAGAG
94001 ATTGCCAGCA AACCCACAGA AGCTGGAAGA GGCCTGGGAG GAGTCTCCCT
94051 GAGAAGTTTC AGAGGGAGCA TGGGCCCTGC TGGCATCTTG ATTTTGGACT
94101 TTCTACCTTC AGAACTGTGA GAAAATTAAT TTCTGTGTTT TTCAAGCCAC
94151 TGTTTGTGGT ACTTTGTGAC AGCAGCTCTA ACAAATGAAT GTAGTAAATA
94201 TGTTTCTATT GTTTTCTTTG CTGCTAATTT TTTAATCTTT GCTTCTCTAG
94251 TAGGTGCTAC TCAGAGCACC TTCTGTCCTC ACTCCTAACA TGCTGCTTAC
94301 AATACATTAT GGGATAGAAG ACCAAGTGAC AAAACTTGTT TGTATTGTTT
94351 GTAAAATTAA ACTAAACCAA GAGAATATTC AGTAAGTCAA GTCCATTGGC
94401 TTTAGTATAG GGTAACCTAT TTTAATGTTG CCAGAGACTG TCTTTGCTTA
94451 CTTTTGTATT TCAGGTTTGG GAAGATATTT TCAGTATCTG TAGGCTTTTT
94501 TTTTTTTTAT ACCACTTCTC CTGTCCAAGG TGTGTTGTTT TGCTTTTATA
94551 TATCTATTAG GAAAGTTAAA TCTTTTCCAT TTTACCAAAG CTACATGTCC
94601 AGTATGAGAA CATTTAAAGT CTA AAAAATTA TCTGATTACT TATATTGTAT
94651 GTGTTCTGCT TGATGCTGGC TTTCTTTTCA TGTATTGATA AAAGTTTCTA
94701 TTTGTTGCAG TGGAAATAATA GACTTTGGTT TTAGGCTATC ATCTGTGGAG
94751 TGCTTAAGAA AATGCCCTTT CTTTTTGTTT TGGTAAATCT TCTTTTCAGT
94801 AGACCACAAG CCCTTGCAAA TGTTCTCTTT TTCTAACTCT GGTAGCAGAA
94851 GGACCACTTG AGCCTCAAAA CAAAACGGCA GTGCAGTAAT GAGGGTATTA
94901 GGTTGATGTG TTCTATTGAG CACCTGCTCC CGAGCTACCG AATAATGAAT
94951 GAGCATGAAT TACACATTGT GAAAACAGGA GAATCTGCCT TCTTTGTGTT
95001 GTATGCATCA AGCAGTTTCA AAAGGGCTTT GCAATTGTGT TTCTCACACA
95051 AAGCCACCCA TTTGTGAAAA CCCATGTGTA AAGGCAAAGA GAACTGTCTG
95101 TGTACAGGTT AACATTTAAC TAGACTGGCA GAGCTTTTAA TAATTTCTAT
95151 AAGGTTAATG GCTTCGTTAA TATGCAACCT GTGATTTGGT CCAAGTTAAA
95201 TTTTACTTTG CCCAGAATAC ATTATAATAT AAAGCTTAAG CTTTATTCTT
95251 TCAGGTTTAG TCATTTAACA CATAATATTG ATCAATTATG CATGTTGGAC
95301 ACAGAGCTCT GAATAGAGCT TTGAAATATA AAAGCTATGG TTTAGTCCTC
95351 TTAGAGCTAT GATGTTTGGT AGGTTAGGTG AAGTAGACAC ATTTTGGACT
95401 TATAAATTTT CAGCTTACAA TGGGTTTATC AGGGCGTAAC CCATTGCAAG
95451 TTGGGAGCAT CTGTACGATG GTATAGATAT ATATAATGCA TATAGTTTAA
95501 TATCCTTTTA AGACAAAATA TGAAGATATT TTATTTGCTC AAATCTTGTT
95551 ACACAGTTTT CCACTGTGAT ATTCACATGC TGACAGAGAG GCTATTTGCA
95601 TGGTGTGTTG CACCAGCAAT GAACAGCAGC ATTTGAGTTA TGAGTGGCT
95651 CTGCCAGTTA CCAGTGGGGC AACTTGGGCA AGACACTAAG CACCTCTGAA
95701 CCTCATTTGT TTTATCAGTA AAATGAAGAT AGCTATACAT ACTTCACAGG
95751 CTGTGGTGAT GATATATTCT AATGAATATA CAGTCTTAAA TAAAAACATT
95801 CAATAAATTC TAGCTACTCA TTTATATTAA TTTATTATAC CCATTTGCTT
95851 TGAGTTATCT TCTTTGCAAT AAGCTGTGGG AAAAACTTAC TGTTCTTCT
95901 CATACTCCAG GATACATCAT CACCCAAATC ATTACACATT CTTATATAAC
95951 GCAAACATTA AGAAAGAACA ATAATCTTAC TAAAAAGCAG AGTGTGGTAT
96001 GGTAAGAGAGA TTAAGAGGCT TTGGAATAGT TACATCAGGG ATCAATTAGT
96051 GAGCTGTGTG ACTTTAGGCA AATTAATAAA CTGAATTTCT TTAAATTTTG

FIGURE 3EE

96101 TTAAATAGGT ATAATAACAT TATATATAAG AAAGCAGGAA AAATATGAAC
96151 AGCTCCTATT ATAATGCTTG CAAAATCAGG AGTGCTTAAT AAATGGAAGC
96201 CACACTGCGA TTTTCCAGAT AATTGTGAAA CAACTACGGG CCATTACAAA
96251 ACCATAGGAA ATTAGAAGTG AGGAGTAATT TGGAGACTGA CAAGCTCTAC
96301 CTTTCATCTAA AGGCAGAATT TCTTCTGCAG TCTCCCTAAC AAGGAATCGT
96351 TATACCTCAG GGATGGGATA GTCACTACCA CATAAAGTAG TTCATTTTCA
96401 GACATGCATA ACCTTAGAAA GTTCTTCTCT TGATTTACAA TTAGCCTCAT
96451 AGTTCTGTTG CTGCCTATTG GAGTTTTACT ACGTGTACAG TCAGGCAGGG
96501 CTTCCATTCA GTCACCACCC ATTAGTACTG TTGTACTAGT AATTTATGGA
96551 TGGCGTCCAT TCTTACTGGT CCATGTCCCA TTCTGATTTG TGTTTGTGCC
96601 ATTTTAAAGT GTTTTGAATA TTAACCCTGG TATCAGATAA ACATGGAGTC
96651 CTGACTTTTT CCATAATCAT GAATAACAGT GGAATAGTTA CATCAGATTT
96701 GTGTGCCACT GTGGTCCCAT CTATGAAATA GGGATAATAA TTGTACCTAG
96751 TTCATAAGGT TGTTTGAGGA TAGTGTGGAA TAAAGTATAA AAAGGGCTTA
96801 GCCTGGTTTC TCAAATATTG CAATAAATGA AACTTAGCAT CATGATGCTG
96851 TCACAATGGT TCAATGATAA TTGAAAACAT CGATTCATCA TTTAGCATCC
96901 TCAGCTTATC AGTTTCTCAC TATCTAGCTC TTCTTACACT GGACACTTCC
96951 TAATTATTCT TTCAATGTTT TCTGGAAGTT AGTTGAATAA TTAAGTGCA
97001 CCAGATACTA CACAGTAGTC CCCCTTGATG CATGAGGGAT ACATTCAAGA
97051 CCCCCAGTGG ATACCTGAAT ACGCAGATAT TTCCAAACCC ATATATACTA
97101 TGTTTTTTCC CTTTTGTACA TACCTATGGT AAAGTTTGAT TCATAGAGTA
97151 AGAGATTAAC AATAACTAAT AATAGAACAA TTATAACAAT ATGCAGAGTA
97201 AAAGTATGTG AATGCAGTCC CTCTCTCAA GCATCTGATT GTACCGTACT
97251 TACCTATTTT TGAACCACAG TTGACTGTGG GTAAAAAGGA AAAGTGCAGA
97301 TAAGGGGGGA TTAATACTA ACGAGTTTTA CATGTACCAT TTAATAAAT
97351 CATTACGACT CTATAAGTA GATATGATTA TTGTCCTCAG TTACAAATGT
97401 GGAGGGCTGA GTCTCAGAAC GTTCTATTAC CGACATGGTT TTGGTCCCAA
97451 CAGAAAACCT CATAATGGTT TAAACAATAA AAGAGATTTA TTATCTTATA
97501 AAATCAGAAA ATCCAGATGT GTGCTGGACT TGGAGGGTAT CTTGATTCAA
97551 CAATTCAGCA GTATCACCAA CTAGCTGGTT TCTTTCCTC TCTTCTCTCT
97601 TTTCCATGTG GCCACTTCAT CCTCAGCTTG TTCCTCCATG TGATTGCAAG
97651 AAAGCTGCCT GCTGCCCAGG GCTCCATGCT AAATTCTTTA AATCTAAAGA
97701 ATCACACTCC TTCTCAAAAC TTTCCCCAGG ACAGCAAGGA AGCTTTTTCC
97751 TCAGAAAGCC AGAACATAAT TCTTTCTGAT ACTCAGTGGC TTAAATTGGG
97801 TCACCAGCCC ATCCCTGAAC CAATAACAGG GCCTGTGGGA TGGGATAACT
97851 CCTACTTAGG CCTGACTCAC ATAATCCTTC CCTACAGTCA GGGTGGAGTA
97901 GGTTCCTCAA AGCACACAAA ATACAGTGTG TGTGTGTATG TGTGTGTGTG
97951 TGCACACGTG CATGCGTGCG CGTGTGTGCG CGCATGTGTG CATGAATGTG
98001 TGTGTTACAG AGAAGTGAAA ATACCCAGTT GAAAACTGAA ATGATGATTA
98051 AGAGAATGAA GAATGCGTAT TAGAAAGGCA ATCAAAATGA CCATTAGTAA
98101 GCTGCACAGT CGAGATCTGA GCCTTGGTCA TTTGACTACA GAATTAATAC
98151 TCTTAAACCT CCACTATCTA CTGCTTCCCA AATCAACCTA GAAATCCCTG
98201 GGGTTGGATA GGACCATTTG TGTTTGAGAC TATTACCAAC ATTACTAAGT
98251 ACTATACTAA TATACTCATG CAACCTAAAG CATATATATG TGAAGTGTGT
98301 ATATGTACCC ATATATATAC ATACACACTC ATATACTACA CACAGTATAG
98351 CCTATACAGG GCTCATGTTT AATCAGCATA CACTGGTCTG GCCCTATCAG
98401 TTGTATTTCA GTGTATTGGC TGATGAAGAG GTCATGCCTA AGCTTTGCTG
98451 CTAATCCAGC CCCTTTTCCA ATCTCCCCCT CATCCCCAC CCCTTCCCTC
98501 CCTTGACCCA GCAACTGAAG TGCTAACTCC TGGCCCAGGA GAGGTCCTTC
98551 AGGGCACTGC TCCTGGGCTT CCATCAGCAT CCCTTCTGAT GAAAGGATGA
98601 CTGTGCTGTT CTGGTTGTTA AATATTTTGT CCATCACCTC TGGCTATTTG
98651 TAAATATATA TACTTACATG GAATACTATA TATGCCCCACT ATATTTCACT
98701 AAATTTTACT ATGCTAAGCT CTAGAGAGTT TAGATCATTT GTCCAAGATT
98751 ACATAATGAG TGACTGGGAT TACAACCAA GATTGTGAAG TACAATCTTA
98801 GGAGGATGAT ACCTAGTCTT TAATCATCTA ACCCTGACAG CCTTTCCTT
98851 CTGCCCCCTA TTCCAAACTG TTTTTCCTTA TAATTTTCCC TCACTCGCTC
98901 TTAACATGGG TCTGTTTTTT GAGACCAATA GCCCATCTGT GACACCCTAA
98951 ATAATATGTT ACAGAATTAT ATGTATAATA TTTTTCCTC CTCCAGAACT
99001 TGGCGATGGC CCAATCTGAG AGACTGTTAT GTGGCAAATA ATTAAATACA
99051 AACTATGGAC CATCAAAAGG CCATGGGACA CTGAAGGAGT TGATTTTGGT
99101 TTCGATATAC CGATTTCTT GTTTGCTATT TTCATGTACA TGTACCGGTA
99151 TAGGATTGCA GGGTGAGCAA CTTGACTCCA GGGGAGGCGC AATGAAGGGA

FIGURE 3FF

99201 TGTAATTAGC CTGTAAACCC TGCTAATGTC TTGTAAAGTC ATTCAAGTGA
99251 GAAGAGTAGA TACATCAATT CTTCTTGGA TCCTGCCACA AGGAGCATTG
99301 TATTTCCACT CTGCTATTTA TAGTTCTCAC AGCTGGAATC AGCTGGTTCA
99351 GCAGGACATG GCTCTTTTTT ATTTAATCAA ACCAAGATGC AATGAAGAAT
99401 TTCCAAAGTA TGCATCCTAG AATTTCCCTT TATCACCCCC AAAATTCCAT
99451 AGTCCCTCTG AAATCATAGG CTCGTAACAG GCATAAATCA CTTCTTATTT
99501 ATTACTCTTA CTCTAATACA TACACATACA CTTACTGGAA AGTCAAGTTT
99551 CTTAGTTGGC CAATGGTAAA TGTGGCGCAT CTGGCACACA GGGTTTGTTT
99601 GGGTTGTTTT GGGGGTGGGG ATTGGTTGTT TTGCTTTGTT TTGTTTTCTC
99651 TTCTCTTCTT AGGGGAAAAA GACATGCAGG GCTTAGTATT CCAACAATTT
99701 GAGAAACCAG GGGGCTGGGA TTCATTCAAT TTTATGACAA ATAGTTACTC
99751 GAGCACCTAC TTTATTCTTG GGTACTTTTA TGAGTCCAGG GGCTGCTGCA
99801 TTGAACAATA CAGAAAAGAA GTCCTTTCAC TTAGAACTTA CGTCCTAGTG
99851 GGGGTTGGGG GTTGGGGGTT GAGAGAATGA AGCATTCTTA CAAAGAATGT
99901 TAAAAGCGAA CTATGGGCAG GAATTGAGGA TATGAGTTTT GATGTATAAA
99951 GAAAAAGTGA CAAGGTCAAT AATTGGTGGT CTTAGTGTGA TAGATATGCC
100001 AGTTTGGAAT TTGTATTGAA TAAATGCTAG TCAGGGGCTA GGCTGTAGTT
100051 ATGAAAAGGA GATGATTAAG GAAGTGAGAA TAAGGAAACT ATTGGTGTGG
100101 GACGGATGAA AAGATTATTG GAGGCAAGTC AAGGAACTGA GAGGCCAGGG
100151 TGTTAGATGG AGCATTCTATG TAGACACTGA AGTCACCAAG AATAATAAAT
100201 AACAAGTAAG AGGGAATTCA TCATTAGCTA TCTGCTTATG ATATGGATGT
100251 GTTTTTGCTG TGTCCCCATC CAAATCTCAT CTTGAATTGT AGTTCCCAT
100301 ATCTCCATTT GTCATAGGAA GAATGCAGTA GGAGTTAATT GAGTCATGGG
100351 GGTGGGTTTT TCCAATGCTG TTCTTGATGAT AGTGGGTGAG TCTCATGAGA
100401 TATGATGGTT TTATAAAGGG CAATTCCTCT GCACATGGTC TCTGCTGCTG
100451 CTCCACGTAA GAGGTGCCTT TGCTTCTCCA TCACCTTCTG CCATGATTGT
100501 GAGGGCTCCC CAGCCATGTG GAACTGTGAG TCTGTAAAC CTCTTTTTCT
100551 TTATAAATTA CCCAGTCTTG GGTATGTCTT TATTAGCAGT GTGAGAATAG
100601 ACTAATAAAG CCAATTGGTA TGAGGAGTGG GGCAGTCTG TAAAGATACC
100651 CAAAAATGTG GAAGCAACTT TGGAACTGGG TAACAGGCAG GGGTTGGAAC
100701 AGTTTGAGAG GCTCAGAAGA AGATAGGAAA ATGTGGGAAA GTGTGGAAC
100751 TCCTAGAGAC TTGTTGAATG GCTTTGACCA AAATGCTGAT AGTGATATGA
100801 ATGAAAAAGT CCAGGCTGAG GTGGCCTCAT GTGGAGATAA GGAACCTACC
100851 AGGAACTAGA GCAAAAGTGA TTCCTGCTGT GCTTTAGCAA AGAGACTGGT
100901 GACATTTTTC CCCTGCCATA GAGATCTGTG TAACTTTGAA CTTGAGAGAG
100951 ATAATTTAGG GTATCTGATG GAAGAAATTT CTAAACAGCA AAGCATTCAA
101001 GAGGTGACGT GGGTGCTCTT AAAAACATTA AGTTTTATTC ATTCACAAAG
101051 ATATGGTTTG GAATTAGAAC TCATGTTTTA AAGAAAAGCA GGGAATAAAA
101101 GTTCAGAAAA TTTATAGCCT GATGATGGAA TAGAAAAGAA AAACCTATTT
101151 TCTGAGGAGA AATTCAAACCT GGCTGCGGAA ATTTGCATCA GTAATGAGGA
101201 GCAAAATGTT AATGGCCAAG ACGATGGGGA AAATGTCTCC AGGGCATGTC
101251 AGAGGTAGCC CCTCCTATCA CAAGCCCTGA GTCCTGGGAG GAAAAATGGT
101301 TTCATGGGCT GGGCCCAGGG CCTTGCTGCT TTCGTAGTCT CAGGACTTGC
101351 TGCCCTGCAT CCCAGCTGTT TCTAAAGGGG CCAACATACA GTTCAGACCA
101401 TTGCTTCAGA GGGTGTAAGC AGCAAGCCTT GGTGGCTTAC GCATGGTGT
101451 GGGCCTGTGG ATGCACAGAA GTCAAGAATT GAGGTTTGGG AACCTCTGCC
101501 TGGATTTTCA AGGATGTATG GAAATGCCTA GATGTCCCGA CAGAGTTGTG
101551 CTACATGGGC AGAGCCCTTA TGGAGAACCT CTGCTAGGGC AGCGTGGAAG
101601 GGAAATATGG GGTGGGAACC CACACACAGA GTTCCCACTA GGGCACCACC
101651 TAGTGAGGCT GTGAGAAGAA GGTCACCATC TTCCAGACAC CAGAATGGTA
101701 GCTCCACCAA CAGTTTGCAC CATGTGCCTG GAAAAGCTGC AGACATACAA
101751 TGCCAGCCAA TGAACGCAGC CAGGAAGGGG GCTGCACCCT GGAAAGCCAC
101801 AGAGGTGGAG CTGCCCAGG TTGTGGGAGC CCACATGTTA CATCAGCGTG
101851 ACCTGGATGT GAGACATGGA GTCAAAGATT ATTTTGGAGC TTAAAGATTA
101901 TACTGCCCTG CTGGATTTCA GACTTGCATG AGGCCTGTAG CCACTTTGTT
101951 TTGGCCAATT CCTCTTATTT GGAATGAGTG TATTTACCCA CTGCCTGTAA
102001 CCCCATTTGA TCTAAGAAGT AACTAACTTA CTTTTGATTT TACAGGCTCA
102051 TAGGCAGAAG GGACTTGCCT TGTCTTAGAT GAGACATTGG ACTGTGGACT
102101 TTTGAGTTAT TGCTGAAATG AGTTAAGACT TTGGGGAATT CCCAGAACTG
102151 AGGGTTCCTC CCCATTGTAG ACCATATAGG TAGCTTCCAG ACGTTGCCAA
102201 GGCATTTGTA AACTGTCATG GTGCTAGTGA GAGTGTCTTT TAGCATGCTC
102251 ATGTATTATA ATTAGTGTAT AATGAGCAGT GAGGATGACC AGAGATCACT

FIGURE 3GG

102301 TTTGTCACCA TCTTGGTTTT GGCCAGCTTC TTCACTGCAT CTTATTTCTA
102351 TCAGTGGGGT CTTTGTGACC TGTACCTTGC AAAACAGTC CTGCTGATTA
102401 CTAAATTCCT ATCTCACCTA TTCAAGATGG AGTCACTCTG GTCTGAATGC
102451 CCCTGATAAG AGAATCCACA GTGTTCAATT CTCCCCAGTT GATTCTGAAG
102501 CATATCCAGG TTTATTAGCC ACTAAGTAAA AATATATTAT AGACTACTGT
102551 CAATGAAAGA AACATTTTGT AAGTTATTTT ATATTTATTT TTAATTGAGA
102601 AGACTGAAAA GGTAAGAAG TGATGCTAAA ATTTAGAACT AGAAAATCTC
102651 AACTTGCTCT AGTAGGAATT TTAATAGAGC AACTAAGTT TCTTTTCATT
102701 TTCTCTCTCC TGGTATGTGA ATAAACAACC TTCCATACTG CAATTTACCC
102751 TGTAGTGAAT TAGATGTTAC CCTATTATAT TTTGGAGAAA CTATATAGTT
102801 AGAATCTAAG CTTAGATAAC TTATTTTAT GTTTACAAAT CCACTTTCTC
102851 TTATACATTT TTCTTAAATT TTTCTCATAT TCTTTCTCTG AATTTGTGGT
102901 AAAAATACCC CTTTCCCAT CTATGTCATG GTTCTTTACG AAGCTTTCTC
102951 ATCCTCTCCA TCCCGAGGGA ACTATGTCTC ATTTATCTTT AGGTTTTCTG
103001 TATCTTACTA CAGTGACTTA CCAGAGTAGG TAAATATCTG ATGAATAAAT
103051 GAATACAAGA TTTAATTAAG AAGTAATCAC ATTAAACTAA TTGTTCCCTC
103101 TCTGATCTCT GTAATATTAA GTTTCAAAGT AGTTTCTGGG AAAAGTAGTT
103151 AACACAATGA TGTATGGATT CAATAAATAA GAAAAATGGT GCTCAGGGAT
103201 TTAACAGAAA GCTCATAAAA TGTCAAATCC ACAGCAATTA ATTTCTCCCA
103251 GTAAGTCCTC ATAAATTCAG GCCAAGAAAT TTGATACTGA TCTTGCCTCT
103301 CTCAACTCTC ATCCATCTTT GGTAGGGCTC CTCTGGGCCT CTTTTTCACC
103351 TGGCAAACAG TACCTGATAC TCATTGGATG CAGATCTGAA AGAGGTGGAA
103401 AGAGCCCGAC ACCTGGTTTA TCTCTAGCTT TATGGTGCAG AGAGTATTTG
103451 ATGGTGTGCA CAGTGCTCTG TATATACTGT TAGGATCAGC CTTCTTGAGT
103501 GCACTGGAAT TTCTCTGGGT GTCATTAAGT TCTTCATTTA CTGACCATGA
103551 GGCAGTGGGA TAGAATATGA TATTAATCAA GAAACCATCC CTGACATCAT
103601 GATCCACTTG GAAACTTGC AGAAATTAGA AAAATTTTTT GAGTAGGCAT
103651 TTTGCTTTGT TGCCAGGCT GGAGTGCAAT GGCTAGTCAG GGCACAGTTG
103701 TGCAATGCAG CCTCAAACCTC CTGGGCTCAG GTGATATCCC TCTTCCACCT
103751 CCTGAGTGGC TGGGACTATA AGTACACACC ACTGTGCCTG GCAAGAATTT
103801 TTTTTTTTAG GATGTTATAA GGCCTATAGT TATTTAATTA TTAATCCTGG
103851 GGAGTGTAGT GAAAAGATTT GGACCAGTCT TTTACACACT GATGTACAGC
103901 AAGATAACTA TAGTTAGTAA CATTGTATTA TATACCAGAA ATTTGCTATA
103951 TCAAAGTATC ATGTTGGCCA CTTCAAACAC ACAATTTTTG GTTTAAAATG
104001 ACTAAAAAAA TTAATAATAGC AAAGTAAAAA AAATTCACAG GAGAGCACAA
104051 AACCCACCTT CTTCCAATGA AGGGAGTAGT CTGGTGGTTA ATACTTGGAG
104101 GATAGAATGA TAGAGTTTGC AAAGCCTTGG TGAATATTAT AGTAAGGAAC
104151 ACTCCTGAAT CAAAAAATCG CATTGTACTT TATAACAGCC CTCACCTTTC
104201 CACTCTCAGA TTTTACTGC CTTTCCCTAA TGTACCATTA AAGCCCTTCA
104251 GCCTAAATTC ATAGACTCCA TTAGAGAAGA AATTCTGAAA CAGGTTTTGG
104301 GAACACATTC TCAGCCTAGT CAAATAGCTT TCATGCTGCT AGAATAAAAA
104351 TACCTTAATC TTTGACAGAC CAAGTCTGTC AGCTTACTCT TTAATTAAAA
104401 ATATTAATGA GTAACAAGTC CCATATCCAT AAACAGAACC AAGTGTGTGA
104451 TAAACTGTGA TAAATGTTAT GGTGGAAGAA GTATCCCATG TGGTCAGAAT
104501 ATATGGGATT AGGGGGGATT TGACCCAGAA ATGAAAAATC AGGAAGGCTT
104551 CCTGCAGGAA ATGGCATCTG AGCTGTGGGG TTAAGGGTGA ATCTGTGTTG
104601 TCTGAGTGCA CTGGTGAGAG GACTCTAATT TAGGCAAAGC AACAGCAGGT
104651 GTGGATGTGA GGAGGCAAAA GGAGACAGGG GGTGGTTATA TAACTACATT
104701 ATCAACCATA TTTTCCCAT TTATAGTCTT TAAGCTCACA TCATCTGTGC
104751 AATTCTAGAG TTACACAAGA AAATGATGCT TAATACTACT AACATTACTT
104801 TATGGCAATG TAAATGCTTT ATATGATCCA ATGGACCAAT ATCTACATGC
104851 TTAGATACAA CATGCTATAG GAAGTTTAGA GTCTGAGTTT TTGAATGAGA
104901 GAGGCCTTGG TTCAGAGCCC ATTTCTTCCA TTTACTAGCC TGTGACCTTG
104951 GGTTAAGCTT CAGTTTTCTG ATTTAAAAAT TGGGGATTTT CTGTCTCATA
105001 AATTTACTGT GAGAATTGAA TGAGAAGATG AGTATTGAGA AGCTAGTACA
105051 CTGTTTCAAC TCCAGTTAGC TTTCTTAAGC CTTTTTGCCC CTACCCCTTA
105101 GTTCTGTTTG TTTTATTGTG AGCAACTTTC TTTTTTCTTT TTAATCCTCT
105151 AGGGATATGA AGCCTGACAA TATTTTACTT GACGAACATG GTAAGTGAGT
105201 GATTTGTTTG CAATCAAGTA CATGACATGC ATGTAGAAAA GTTGATTGTT
105251 CCCAGCAGAG GGGTATTACA CATGAAAAAG GTATTTTGTT CTATTCATTC
105301 GAGCTCTACT TACAACTCC TCATAGACAA TATGGGGGAA CTTTATTACT
105351 TATGGCAGGT TATAGTACAA CAATACACCC TTAAATCACA TTGAATTTAC

FIGURE 3HH

105401	CTAATGAGAA	AATCATAGTC	TACTCAATTT	TCTTCCACTA	CTATATTTCT
105451	TCAAGAAAAC	CATCACAAC	TTTCAGTGTT	AGCTGGCCTT	AATATAACAC
105501	GCAATCACCT	ATTTTTTATA	ATGATACAGA	AGGCCTCAAG	CTGAGAGCAT
105551	TTGGCCAGCA	ATAGCATCTA	CCTAGACATT	AATGACATTA	TTTTGTTCTC
105601	ATTGCATCTA	CTTTTTTGCA	TTCCTTCTTA	TAAAAGGCAA	ATTGGTTTTA
105651	CATTTGCAAA	TTGGTTTTTA	CATTTACTTA	ATATCACAGA	AGAATTCTTA
105701	CATTTTAGGG	TCATTGTAAA	GACTGACCTA	ATACATGTAA	ACTACTTGAT
105751	GCAGTGACTG	TCACGAAGAA	ATCACTCAAT	AGAAGTCTAA	TATTGGTACA
105801	ATTTTTATGA	GGTGGTCATG	GGTTTCTCCC	CTTGGAAAGG	AAGCTGGAAC
105851	TGCTTCATCT	TGTTTTATGC	GGCTTTGTCT	ATGCTGGCAC	ATAACTAGTA
105901	TGTACCAATG	TATCTCAGAA	AAGATATCAA	GTTTTCTGTT	TAAAAATTTT
105951	AGTTTGAGAA	AAATCAGTTA	AAGAAAAACA	TAAAAAAGAT	AAAAGTATAT
106001	GTGTTATCTA	GATTTGTGAT	ATAGGGGATAT	GGCAATAATC	AAGATGGTGA
106051	TAAGTGAATG	CTGAATTTCA	AGAACTACTG	ATTACACCCT	CTAGAATAAG
106101	CTTTTGCCCG	TGATGATTAA	ATGTGTACGA	TTTCTTCCTA	ATATTTATTT
106151	TTGTGTATAT	TGGGATTTAT	TAGAATATCA	GGGAAGATCT	GCAGGGCACA
106201	AAAACGTGAT	GTTATAAATG	TTAACAGTGT	CAATAAGATC	TTTGTTATGT
106251	CTTTAGAAGG	CTGCTAGATG	AGGAGAGTCC	TAGATCTTAA	AGGCTCCTTA
106301	TTCAATTTTT	ACAAAAAGGA	TTTGCAAGTG	GAACTGAAAC	TCCAAGTACC
106351	ATCTATTGCT	CATTATTTAT	TTACCTATTT	TTGAGCCTGA	TTTTCCTGAT
106401	CCCACCTGTG	CTCAGGGGGC	TAAGAAACAC	TGGTAATGAC	CTCTAATTTT
106451	AAAGCTCACT	GTCATTACTT	ATTTATGGAC	TGTCCAAAAA	GATTTTTTCC
106501	ACTTTCTTCC	AATGCCTTAT	TTCTTCCTTA	CCTTTACTGC	TTCTGACATT
106551	TGAAAACAGG	GTCTCTGATT	CTCAGAAATG	TGAGCAATGG	TGAGATTTAG
106601	CATGAAGGTG	ACTTTCTTTA	AAATACCAGC	TATCCAGAGC	TAGGTACAGT
106651	GGCAGGCACC	TGTAGTATCA	GCTACTTGGG	AGGCTGAGGC	AGGAGGATCG
106701	CTTGAGCCCA	GGAGTTTGAA	TCCAGCCTGG	GCAGCACAGA	GAGACCCTGT
106751	TTCTTGTTGG	GGGAAAAACA	ATTACCACTG	GCTTCTCTTC	TAGCCTATAG
106801	AGGCCACCTT	TGTGCAACTT	AGGGAGAAGT	GCTCCCCCTG	CCCACCACAG
106851	CTTCCTGACA	GCACATGGCC	CACCAAGGAG	AACCCAAGTT	AGGATTGAGT
106901	CCTCACTTGC	TCCCTCAGCT	GGGTGCCTTT	GTGCATGATT	TCTGCTGTTC
106951	CACCATTTAT	AGAGGCCTTA	AATGAAGGCA	TATAGGTCCT	ATCAATCCAA
107001	CACTTTCCCA	GCTTTATCCT	CCCTTCAGAG	AACAGTGTTT	TCATCCCAGG
107051	TCTCATCCAT	GGCTTCACCC	TACTTCTATC	ATTAAGGCAT	CCTATTCTCC
107101	TTCAGTCAAC	TTCTTCCTCC	TCCTCATTTT	CTTGGTGACT	TGGTCATTGC
107151	AGATGAGGAA	AAACATGAAG	AAATCAATTA	ATCTTCAAGT	TTAACCACCT
107201	TTAGAGACTA	CCCTTGTGAA	AGATTAATTG	TGTAACAGTG	TGGTTAAGAA
107251	TGTGACTTCT	GGAGCCAGAT	TGCCTTCATT	CAAAACACAC	TTCACTCATT
107301	TCCTAGCCCC	GAGAGCTTTG	ACAAGTTGCC	TAAACTTTGT	CTTAGTTTTT
107351	CCAGGGATCA	AAAGAATACT	TACTTAGAAA	AAAAATCTTA	CTTACAAAAG
107401	AAATCTTACA	GGGATCAAAA	GAATACTTAA	TTAGGGTCAT	TGTAAAGACT
107451	GACCTGATAC	GTGTGAAGTA	CTTGATGCAA	TGACTGTCAC	AAAGAAATCA
107501	CTCAATAAAA	GTCTAATATT	AGTACAATTC	TTCTGAGGCA	GTCATGGCTT
107551	TCTTTCCTTG	GAAAGGAAGC	TGGGACTGCT	TCATCTTGTT	TTATGTTTCT
107601	TTGTCTATGC	TAACACATAC	CTAATACGTA	CCAAATCTCT	ACCAGATAGA
107651	ATCTGTAAAA	GTTGTCCTTC	CCAAATAATT	ATTTTGATTT	AAGAAGTGAT
107701	ATACCAAATA	TTCTGCTTGT	CTACTTCTTA	GATCTTGTGT	TTAAACCATT
107751	TTGTTTATCC	CTTCATCCTC	AGGTAACCTAC	ACTTTCCTGT	TACATTCTGC
107801	TGTCTTTCAT	GTGTGCAGGG	GGCAAGGGTG	CAGTCATGAC	ATTTTATTCT
107851	TGGTGGAGCT	GGGGCTCTGT	TGCCTACAGA	ATACAAGCCA	TCATTCCAGT
107901	GTGCCAGAGA	GAGAGTCTCA	GTCTGCCCTT	ATTACCTGGT	GTCTTATTTA
107951	CAATGACTGC	TTTCATTCTC	AAGGCTTTTT	AAAATTTGGT	CAGTGAATTA
108001	AGAAGAGGCT	TTTCTGTATT	ATATTCCTAC	CCTGAACTCA	ACTTGAAAAT
108051	CAATTGCTTT	GGGAAGGATT	GTATATGAAT	GGTACAGAAG	TGAGCAAACA
108101	AAAAAGACTG	AGAGCCATTT	TCTAAACATT	GCCTTAGGGA	TCTCTTCTG
108151	GAGATAATAA	TTTTTTTGAA	GTTATTTACT	TCGTTTGTTT	AGATTCTGAA
108201	AAAGTAGGAC	TCTCAGACAT	TACTCAAGGA	ACATAATTAA	CCACTTTTCC
108251	ATGAACAAAT	TCCTGTTGTT	CACCTCTCCC	CAGCTCGTTA	TGTAGAGCTG
108301	ATCTTGTGAG	AATCAGCTGA	ATCACAAATC	AATGCCTGCC	TTTTAGAGTG
108351	TCTGCTGGTG	TGACTTTCCA	TGTGGAGCTC	ATATTTGAAG	ACCTCATTTG
108401	CCTTCTCCAT	CTCCATTTAT	AATATTTTAT	CCCTGATGGG	CTGTCGCTTG
108451	GGCCTCATGT	GGAAATTGTA	GCCACTGTGA	AGGGTAACCA	CCTATCTCTC

FIGURE 3II

108501	TGGTGCCCCC	TATGCGCATC	CCTACAAGTG	AGCTGTGTAT	CACACCATGC
108551	TGCTTACATT	TTTATGCAAC	ACGATTCAGT	AACAGGCAGA	AACTTTTATT
108601	CTTACTGACT	CATATTCTTT	ATATTCATCT	GAAAAGATTG	ACATTTAAAG
108651	GAGCCAATTG	TACAATGGGA	AATCCACTGT	GTGAATATTT	CTTGACATC
108701	AGAATTTGCC	TTAAAAATGT	TTTTAACTTA	GAGCACATCT	GTACTGTTCT
108751	CCCCAAATGT	CCCATTTACT	AGTTCAGAGC	AAGATGACAT	TAGGTCTTGG
108801	GTGACTCCTG	ACCCACTATC	CTAATGTATA	TTTTCATTTT	CTACCAATGT
108851	AAGTACCCCA	TCCAATTCTA	TCAATACCAT	AGTGTCTAAA	ATTCTTGTAT
108901	TTTTCTTATT	CAGGAAATGC	TACAACCAGA	GGAACAGTAA	TGTCTGCCTG
108951	ACATATCAGA	GAAAATGACA	ATTATGTCAT	CATCTGTCAC	TTAGGTTTCT
109001	TAATACCATC	CTGTTACAAG	GAATAGAGGC	AAAACTCAG	CGTAGGAGGT
109051	GAGAAAAAAC	TGAGGCTGCC	ATCTTAACAG	CCTTTTCATT	GCAGAGTCTC
109101	AAAATGTACC	AAAAGATGAA	GTGGACAGTG	TCCTTTTAAA	ACAACATACA
109151	GTGTAGAATA	CAGTAACTTA	TCCCCATTTA	ATTACTCCCT	AGGTAGTGCC
109201	TAAGGATATA	CATTTTCAGC	AAGGATCTCA	GAAAAATGTG	GGGCACATAT
109251	TCTAAACACC	TGCGAGTAGC	AGAGACTTAA	AAGTTGGGAG	CAGTGCCAAC
109301	TGATTGGTTA	TGGTGCCCTA	GAGCACTGCG	TTGATGAAAG	AGATCCTCAG
109351	GCTGTGCACA	GGAGCAGCAA	GAAAGAGTGT	AAATGATGAC	AACAATGATG
109401	GCTGAATTCA	ATGGCATCAT	AAAATGAATT	CAGATTTTTT	ATATGATCCT
109451	CTATCCCAAG	CAATAGAGGC	AAAAAAAAAA	AGGCAGAAAC	CCTCTCCTAG
109501	AGTGGTAAAT	TAGGAAGTTC	TGAGGCTTGC	ACCTGAAAAA	CTTTTCACTA
109551	AAGTAGTGAT	TCTCAACTGG	GCGTAATTTT	GCTCTACTCC	TTCTCCCTGC
109601	AGAGGACATT	TGGTAATTTT	TGGAGACATT	TTTGATTATC	AGGATTCCAG
109651	CCAGGGTTGG	GAGGTGATAT	CAGCAGCTAG	TGGGTAGAGG	CCGGGATGCT
109701	AGCATGCATC	CTGCAATGCA	CAGGACAGTT	CGCACTACAA	AAAATTATCA
109751	GGTCCAATAT	TTCAATGGTG	CTGAGGTTGA	GAAACTCTGC	TCTAAGGCTC
109801	ACTCAAGGCC	TGGGCTAATG	AAAAAAGCCA	GAGAAGTCCT	TCATTCCCAA
109851	GGCAATTCCT	GTGTCCTTCA	GTCAGCAGGA	GAAGTGAACC	TTTCCTGTGA
109901	TCCAGCAGTC	AAATTTTCATT	TTCAAAACAC	AGAAGGGAAC	CTGGCAGATA
109951	GGTCACCATG	GTAAGGAGAA	GCAAGTCATG	GCTGTAGCCG	GACCTGGGAC
110001	TAAGGCTTAG	GGCCAGCACT	CTGTGAAGTT	CTGCCTTCAT	TGTTTAGCTC
110051	AGAAGCACCA	GGTTACAAGA	TCCAGTAGAA	CCTGACCCTC	AAATAATTTC
110101	TCCCTCTCCT	TAAATAGGCA	TCCTGGAAGT	GGACTAGAAC	TCTGAGCCAA
110151	TCAGAAATTA	ACTGTTTTAG	GTTATTTCAGT	TCTTTGATCT	TGTGATACAG
110201	CACACAAAGT	TTTTGGTAGA	TTCATAGTCT	GACAAAGGGA	TTCTAGACAA
110251	AATTCTAGGT	CTTAACTCCA	GCTCTGTAAC	TTTTGAGTCT	TTTGAACCTA
110301	GCCATAAATG	ACTCATATAT	AAAATAGGGC	CTACCTCACT	AGGCTAAAGG
110351	AGAAATTTTG	TGCAACAACA	TTTTGAAAAC	TGAATCATGC	AAGTGTA AAC
110401	AGCATTTAAA	AGGAAAATAC	TCAACATTCT	TTCAACTGAC	GTGTAATGAG
110451	TACTCACCAG	AGTTGAGATG	TTCTGCTAAG	CCAGGCCCTC	TTTTAAAAAT
110501	GTAATCTCAA	ACTTTATTAG	GTCTCATAAT	CACCTGGAAG	GCTTATTTAA
110551	ATATTGGCGC	CCAACCCACA	GAGTTTCTGA	TTTGTTATAA	TAGAGTTGAG
110601	GGGGGACGGG	GCGTAAGAAT	CTGCATATCT	AACAAGTTCC	CAGGTGATGC
110651	TGATGCTGCT	GATCTGGGCA	CTACATTGTA	GGAATCAATT	GGCTCTAAAA
110701	CCTTCTCTAC	CTTCCACTTC	TACATGAGCA	TACATAATCT	TGTAGCTGAG
110751	TCAGCTTGGA	AATCTATGCA	GACTAAAGTA	GACAGTTGCA	TGTCTGGCTG
110801	CTCATCTGAA	TCACCTGTGG	AATTTGTTGT	TTTTAATACA	GATACCTGGC
110851	TCTCCTACAA	GTCCCACTGA	ATTGGAGTTT	CAGGAGACCG	AAGCCCAGGC
110901	ACATGTATTT	TGCAAAACTA	CACTGAAGTT	TCTGATAATG	ACGGATATCA
110951	ACAATTAAAC	GCTTACTTCT	TGCCAAATGC	TGTGCTAAGT	CTCCTGTAAT
111001	CATTCTTTCA	TTTAATATTT	CTAATAACCT	CTTGAGAAGA	CTATGATTAT
111051	CTTTCCAAC	TTACAGAGAG	GATAAGTGAC	GTTTTCAAGG	TAACACAGCT
111101	AGTTAGTGGT	AGAACCTAGA	CTTGAAGCCA	AGCAGTCTGA	CTCCAAGAAA
111151	CAGGCTCTTC	ACCACAGTCT	CCAGACTCAC	CTGATTTGTA	TTAAACTTTG
111201	TGAATCACTG	ATCCAACACT	ATGAGCAGGA	CCCATGGGGA	GAAAGAGAAA
111251	AAGAAAAAAC	AGAGACAACC	TACGCTATGA	TAAAGTTATT	GAAATCAGGC
111301	ATTGGTGCCA	CTCCAGCAAG	AATGAGTGGC	TACCTTTTTT	TTAGATGAGT
111351	GCTACCTTTA	CTTTACTGAA	ATATCATGAC	ATAAACAAAG	CCAAAACACT
111401	TTCTGCACAA	AATAAAATCC	TGGTGATAAA	GGCAGTGGGA	TTTATGCTTA
111451	GCAGCAGGCT	GGATACTATC	AGGGAGCAGA	CAAAGAAGTT	TGATACAGGG
111501	CTTGTGGACT	GTGGGCCCTG	GAAGAATCTG	ATGACATGCC	CTCCAATTAC
111551	AGCTGTATCT	CATCAAAACC	ACAGACACAT	GTAAATGGAA	ATGCCAACAC

FIGURE 3JJ

111601 TTCAAGATTC TCTGAAAGCA GTTGACTGTC ATGCCAACAG CTAACATAAT
111651 AGGCTTGTTT GCCTGAGCTT TTGGCACGGC CCTTTTGTTT CCTTTAGCTG
111701 TAAATGCAGG GACCCTAGAG CACCTCATAG AGTGTGTTCC CTGCCACGTA
111751 TAAGTATTAG ACCCACACTA TATTGCTTTG AGTGTAAAG CTGAAAGAGA
111801 CCCTAGAGAT CATTTAGTCT ACTCCTTCTT TTTTATGTG AAGGAAAATT
111851 TAGATCCACC TTGGAAAAGG ACTTAGAGTC TACTATGTGT TAGAGGCTGA
111901 GTTCAAGGCA GAACCCAGGC CTCCTGGCTC CCAGTCTAGT GCTCTTTATA
111951 GAATCCCTTT AAAAATGAAG TTGACTGGCC GGGCGCAGTG GCTCACGCCT
112001 GTAATCCCAA CACTTTCAGA GGCCGAGGCA AGCAGATCAC GAGGTCAAGA
112051 GATCGTAGAA CACCCTGACC AACATGGTGA AATCCCATCT CTAATAAAAA
112101 TACAAAAATT AGCTGAGCAT GGTGTGTCAT GCCTGTAATC CCAGCAACTC
112151 GGGAGGCTGA GGCAGGAGAA TCACTTGAAC CCGGGAGGCG GAGATTGCAG
112201 TGAGCCGAGA GCACACCATA ACACTCCAGC CTGGCAACAG AGTGAGACTC
112251 CACTTCAAAA AAAAAAATT AAATTAAATT TAAAAAAAC CTAAAGTTAA
112301 ACCCCGCCCC CCACCCACCG CCCCCGCTA TCCCTTGATA ACAGTTATTT
112351 TGCTGGGAAC TGATGAGGCC AACCTGAATT ATCAGACAAA AAATATGTAC
112401 AAAAATATTT TAGAAAACT GAAGAAAAGG GATGCTTTCT TGGCTAGGAA
112451 ATAAATATTT GTATCCATAT TCATGCCAGT TTTGTAGTAA TAATATTTGC
112501 CTCTTACTTT TCTTTTCTTT TTTTTTTGAG ATAGTCTCAC TCTGTCACCC
112551 AGGCTGGAGT GCAGTGGTGT GATCTCAGCT CACTGCAACC TCTGCCTCCC
112601 AGGTTTCATG GATTCTCCTG CCTCAGCCTC CCAAGTAGCT GGGATTACAG
112651 GCACCCATCA CCACGCCAG CTAATTTTTT ATTTTTTATT TTTAGTAGAG
112701 ACAGGGTTTC ACCATTTTGG CCAGGCTGGT CTCGAACTCC TGACCTCAAG
112751 TGATCTGCCC ACCTCAGCCT TCCAAAGTGC TAGGATTACA GGGGTGAGCC
112801 ACCACGCCCA GCCTATTTGC CTCTTTAAAA AAAATAATCC CATAAGGGAT
112851 GTTTGGAAAC GTGATACTTT GAGTATCTCT TGGCTGTCTC CTTCATAGTA
112901 TTCATAGGCT AAAGTAACTT AAAATGTCAC CAACAGACAA AAGATGCCTA
112951 ACTAGAATTA CCTGACCACA AATTCTTAAC TACTAAGGGT AAAACTTTTC
113001 TGAGGCTGAA CTACAGGCTT ACAATCAGAG ACTAATCATT GCATATCATG
113051 AAATGGAGAA TTGTTGGTTT AAGACCATAT CGGCCTTGAG GATGGACTGC
113101 AACTGGCCTA CAAGAATTAA CAGACTAATT GGGTGTTTTC AGTTAAAAGC
113151 ATGATTGTGC CACTGGGTG AATGGGACTT AACTTTCTGT GTGGTTCTTC
113201 TCTCTCTGCA GGGCACGTGC ACATCACAGA TTTCAACATT GCTGCGATGC
113251 TGCCAGGGA GACACAGATT ACCACCATGG CTGGCACCAA GCCTTACATG
113301 GGTATGGGT TCATGAGTGT CTTTTTTTTT TCTTTCCTGT AAATACCATT
113351 TATTACAGGT GGAATCATCT GTGGGGATTT GCAGCTAGAA CTGGTAAGTT
113401 CCTCTCTGAC TTTACCTGTG GAGCTTCTGA TTTTATGGGT CTTCTCCACT
113451 AGCAAGCACC CAAGATGACT TTGATAGGAA AGGACCATTG ATTACATTTT
113501 GAAAACTTAC TTCGTGTGTC AAGGAAGACC GTTTGTACCC ACTTCCTAAC
113551 AAAAATATTA ACTAATTCAA TAAATACCTA CTAAGTGTCT CTGTGTGCTT
113601 AGCACTGTTT CAGATGCCGG TGACCCTGTA GAAAGCAACA CAGACAAGGT
113651 CTTTCAATCC TGGAGCTTAC ATTCTAGTGG GAGCAGATTT ATAAAAAATA
113701 AAGAACCAAA CAAGGCCGGG CATGGTGGCT CACGCCTGTA ATCCCAGCAC
113751 TTTGGGAGGC TGAAGTAGGC AGATCATGAG GTCAAAAGAT TGAGACCATC
113801 CTGGCCAACA TGGTGAAACC CTGTCTCTAC TAAAAATACA AAAATTAGCT
113851 GGGTGTGGTA GCATGCGCCT GTAGTCCCAG CTAAGTGGGG GGCTGAGGCA
113901 GGAGAATCGC TTGAATCTGG GAGGCGGAGG TTGCAGTGAG TCGAGATCGC
113951 GCCATTGCAC TCCAGCCTGG CGACAAAGCG AGATTTTCGTC TCAAAACAAA
114001 CAAACAAACA AACAAACAAA GAAGTAGGAA ACAGTAATAA GCAAAATGAT
114051 AATAAGTGGC AAAGTATTAT TTTAACCATT ATTTACATAA TACTGCATTA
114101 CATACATAGA GCTATAAACT TTACAAAATA CATTCCCAGC TATAATTTTA
114151 GATTTACTTG TAGTGCCACA ACAATCCCCT GAATTCCTCT GTTTAAAGAT
114201 AAGGAAATTC TGGAGCTGGA TGGTGGCATG CATCTGTGGT CCCAGCTGCT
114251 TTGGAAGCCA AGGCAGGAGC ATTGCTCGAG TCCAGGAGTT GGAGGCTGCA
114301 GTGAGCTATG ATCATGCCAC TGTACTCCAG CCTGAGTGAT AAAGTGAGAC
114351 TCTGTCTCTA AAAACAAATA AATTATTTTT AAAAATAAAT AAAGGTGAGG
114401 AAATTCTGCC TCAGAAAGTT TAAATGTCTT TGCATTATTT TGTGTGTAGC
114451 GAGGTGAGGA ACTGGTTTTT GCCTTGACAA TTCAGCATTT ACTAAGGGGT
114501 GACCAAAAAG AGAGTGTTAG ATGCAAAATT GTCAGTTGGT TTCACGTATA
114551 GTTGTGGTAA CAAATCAACT ACAAAAACCT TAAGTTCACC TGTGGGAGC
114601 AGCCATCTAT ATAGACACCA GAACTAGTTG TTAGCAGAAC CAGCTTTACT
114651 TCCCGTCCAG CCTCAACAAT GCAAGGAGAG AGCTAGTGTC CTCGAGGGGG

FIGURE 3KK

114701 CACACAGTAT TCAGAAAGAG GGAGTTCTCC CTCCCTTTTC CCTGTGGTTG
114751 CTCCTAAGGC AAGTGAGTCA GATCTCAAGA GAATTATCTG TAAACTCTTA
114801 GAGTGACTGC AAGAAAAGAT ACCTGGAATT TAATTCTTGA TTAGATATCT
114851 GTGTAGTTAC TGGACTTGTG ACTGGTCCTG GAGTTAACAC AGCCTGGTTG
114901 GCCATGGAAG TTTGATGAGT TTGGGGGCTA GTCTTTCTGG GGATCATAGC
114951 AGCAGGAGAC AGGTATGCAG TGAATGTGAT TTGTCTTGGG GAGAAGGGAG
115001 GTGGATTAGC TACAGGCTGT GATCCACCTT CACATGGGAC CCTCCAATGA
115051 CCAAGAATAT AGCCTGGAAG GGAGGGAGGC TCCTGTCAGT GTGACTTCCT
115101 GAAAACACCA CAAGTCCCAA TAGAGCTCAA CATATCAGAA TCACTGAGAG
115151 TGGAGTCTAG GCATAGTGTG ATTTAAAGCT CTTAGCGTAA TTCCTCCGTG
115201 TAGCTAGGAG TCACAACTTC CACCACAGAC CCCTAAAGAG AGATTACTCT
115251 GCAGGGTAGC ACATGTGTGA GGACCCCTCT GCCTCGACTA CCCTTCTTTC
115301 ATGTCCTAAA ACAAATAGTG CTTTCTAGGA AAAGATAGAA GGACGTGTGT
115351 GAGAGCCAGA TCAATCCTCC ACCTCCATAC CGGGGTGGCT GAAACCAGCC
115401 CAGCAGGGTG AGTGAAGGAG CTTTGAATCA GATATAAGAA TAGTTTTAAA
115451 ATTCACAGAA CTGAATTGTA AAGCATCTAA AGTAAATGTA ATAAGCAAAT
115501 AGGACTAAAA CTTATTAGGC AACAGACTGA GATATCATTG GCGGAGCTCC
115551 TTATCCAGCA AAAACAGGAA GTTAGACACT GCACAGTTGC TGTCAAATGA
115601 CAGAAGACTA AAAACTACTC ATGCTTGCGG GGGTGCGGTG GCTCACACCT
115651 GTAATCCCAG CACTTTGGGA GACCGAGGCA GGCGGATCAC AAGATCAAGA
115701 GATCGAGACC AGCCTGGCCA ACATGGTGAA ACCCATCTC TACTAAAAAT
115751 ACAAAAATTA GCTGGGCATG GTGGCGTGCA TCTGTAGTCA TAGCTACTCG
115801 GGAGGCTGAG GCAGGAAAAT CACTTGAACC TGGGAGGCGG AGGTTGCAGT
115851 GAGCCGAGAC TGTGTCACTG CACTCCAGCC TGGCGACAGA GTGAGACTCC
115901 ATCTCAAAAG AAAAAACAAA CAACAACAAC AACAAAAAAC CTACTCATGC
115951 TTTACCCTAA TTAGTTAAGA TGCTTAAAGC AGGTGATGTG GTGATGTTGC
116001 TGTTTTAACT GGTGGGATTA AGTCGGGTGG AATGAATTGT TTCAGCTAGA
116051 TATGGTCAGA GTAATTCAAA GGTAAAATAT TTCAACTTGA AATCAAGGAC
116101 AAGAGCAATG CCATTTTCTT TTAATATTTT ATTCTCTTCC CCCATGTAAC
116151 TAGAGAGAGA GAGAGAGAGA GGAAAAGAGA ACCCCCTACA TGCAGAGCCA
116201 CCTCACTTTC CAACAGAAAT CTTCTATGAG AAAAAAAAT GAGCCTTATT
116251 TTCTATGATA TTTGAACAAC TGCAAATTTT ATGGCTTTCA ATTACCAGTG
116301 GGGGGAATAA ATCTCTTTTG TCACTTCTAA AATAATGGAC ATATATAATT
116351 CAGCCTATTT TCTGCCTAAA ACCTATGGTA CTCAAATGAT AAAAAAGCAT
116401 ATCCAAGCCT GCTGCTCTGA TGAGTTTATT CTCCAGGTTT CCTGGGTTTC
116451 CATATTAAGG GCTATTTTCT TGGAAACCAA TCAGAAAATG TGCATCTGGG
116501 TTTCCAGGGT TGGTTTCCAT GGTGAGAGAA GTACGGGGAG GCCACCTTTC
116551 TTTCTCTCC CCAGTGGTTT TAAGTACAAT ATCTGTATAA TGTAATTTTT
116601 TCAAAGTTGG CATTTCTAGT CTTCTCACAA GATAGAACTG GGAAATTGGA
116651 ACCTAGGAAA AATTCTGTGC ACCTTCCACT TTTACCCTTG TAATTAACAA
116701 TGAATAATAT TTCTTGAAAT CTTTCCCTGG ACCAGACAAG GTGTAAATG
116751 TTTTACATTC ATTTATTTGT TTATTTTCT CAGCAGCCCC ATGGGGTGGA
116801 CTATACTTAT CACTACTTTA TAATGAGAAA AATCAGAAGC TAAATAATTT
116851 GGCCGAGATC ACATGGCTAA TAATTGAAAA GTCTAGATTT AAATCAAGCT
116901 CTGTCTGATT TCAGAAATCA AGCTTTTTCT TAAAAGGAAG ATTAATGAGA
116951 AATAAAAATA TATATTTGTA AATATTTTTA TCTGTGGTTT TTAAATGGTT
117001 CTAAGTCAAC TTAGTTAGGC TAACATATTC GAAATGTTTC TTGCCTTATT
117051 CCAAAATGAT TATGTGATTG CCACACTCCT CCTTTTGGAT AGGAGTCTTT
117101 CCCAGACGTA TTGTGGGTAG AAGTCTGCTG TCTCTTTTAA AAAATTATGC
117151 TCCCAATGGT TTGGTAAAAT CTACCAAATC TATCAGCACC CATTTTATAG
117201 TGCTTTCATA GGATACTAAG TAGCAATTCA CCAGAAAGAA CAAAAAGAAT
117251 TCTAAAAAGA AAGAAAATA ACCAAAATAC TGAATGAAGA TTGGAGAAAT
117301 ATTCATCTAC TAATACAAGA TGCTGAGCAT ATTTTAAATC AGTTCCATAG
117351 CTCTGTAAAT AATAAGACAG TATGCCAGTT CTTCAACCACC TTCCATCAAG
117401 CAAGGAAAGT TTTGCTTTTT ACAATTTATT GTCCTCTACC TCTGTGCTCC
117451 CTCTGGTCCC TCCATTATTC CTTCTCTCTT CTCCTTTGTC TGTATGAATA
117501 TAATCCAGAT TACTTAGAGT TAACCAATTA AAACCTTCTC CGCCGGGCGC
117551 GGTGGCTCAC CCTGTAATCC CAGCACTTTG GGAGGCCGAG GCGGGCAGAT
117601 CACAAGGTCA GGAAATCGAG ATCATCCTGG CTAACACGGT GAAACCCCGT
117651 CTCTACTAAA AAAAAATAC AAAAAAATTA GCCGGGCGTG GTGGCAGGTG
117701 CCTGTAGTTC CAGCTACTCG GGAGGCTGAG GCAGGAGAAT GGCGCGAACC
117751 CGGGAGGCGG AGCTCGCAGT GAGCAGAGAT CGCGCCACTG CACTCCAGGC

FIGURE 3LL

117801 TGGGCGACAG AGCGAGATTC CGTCTCAAAA AAAATAAAAT GAATAAAATA
117851 AAAAATAAAA ATAAAAATAA AACATTCTCC TCCAAATTAT ATATGTATGT
117901 ATGTGTATAT ATGTATATGT ATGTGTGTGA GTGTGTGTGT GTATATATAT
117951 ATATATATAT AAATAAGTTC ACTATGGACT AGCAAGCAAA AGGAAAGTAA
118001 TAATCCCTTT GCCAATAGAT ATTTATGGTT TATTTCAGAG CATTTTTTCC
118051 TAAGCACAAA CACATACTGT TTACATTTTT TAAATATTCG ATCATGCTAA
118101 ATGTAACCTA AATTTTCATT TTATAATGTA ACAATAATGA TAGCATCATA
118151 TAGTGAACAT TTATTGTTCC AAGCACTTTG CTAAGTTTTT AACATTTATT
118201 ATTAAACTCT CAACCCCATATA AAATAGGTTT TACTATTGTT TAGATTTTAC
118251 AAGTTAAAAA AAAATCAGGC CCAGAGAGAG AGAAAGTGAT GTGTTTCATAA
118301 TCACACAGCC AGTGATTGGC AGAGCATGAA ATTAAACCCA AGTCTAGAAA
118351 CATGCCGTGC CTGAGACATG GACGATGATG TGACAATGAT GAAGGTAGAA
118401 TGTCTGACAT TGCTAAGCTC TTCCTAAATG TTAAGCACTG TTGTAAGTGC
118451 ATGCATTGTC ATTTAAACTA AAAACAGTTC TGTGAGGCCA CTTACTATCGT
118501 TACAGTTTTA TTATTGCATA ATATATTAAC ATATAATTAA TGTAAGTATAT
118551 TGTATATATA GACTATTGT TATAGTATAT ATTGTTCTCA CTTCAGAAAT
118601 TAGCAGACTG AAAGGTTAAG AAAGTTGTTG ACTGTGAAGC TGGAGACAGT
118651 CATAGGGGTC TGATGCCAGA GCCCTAACTC TTAACATGCT GCAGTACTGT
118701 CCCTTTGTTC ATGTCAATAA ACATGCCTCT GCTAAAATAG AAACCCACTT
118751 CTCTTAATCA ATTTTTTATT GTTGAATGTT AGGTTGTTTC TCATTTTGAA
118801 ATACAGATAG AGCATCCCAA ATCCAAAATG CTCCAAAATC CAAAACATTT
118851 TGAACACCAA CATGACACTC AAAGGAAATG CTCATTGAAG TATTTTGGAT
118901 TGATTTGGGG ATTTGGGATG GCCAACCAGT ATAGTGCAAA TATTTCAAAA
118951 TCTGAAAAAA AAAATTGAAA TGCAGAACAC TTCTGGTCCC AAGTATTTCA
119001 AATAGGGGAT ACTCAACCTG TACATTTAAA TTTGTAGTAA AAATCCTGTT
119051 AGCAGAATTA TGTCCTGGAA CTTAGTTATT TCTTTGTGAT AAATTTTCAT
119101 TCAATAATAA TAGTGTATTC TCTTACTGAA AATCACTCAA AGAAAATTTT
119151 GTGTTCTCAC CACAGAAAAC AGTAATGTGG GTAATGTGAG GTAAGGCACA
119201 TGTTAATTAG CTCTATTGAG CCATTCTAAA ATGTATTTAT TTCAAAAAAT
119251 AGTGTCATAT ACAATATATG CAATTTTAC TTCTTAATTA AAATTAATTA
119301 ATTTGATTAA TTAAGAGAGC AAAAGAATT CTGGTCAAAG CCTTTACATG
119351 TTAATAGATT TCTGTTCTGA AAATTCATAT TAACTGTAC TTGCTCTGGA
119401 AGTGTCTGAA GATATTCATT TCCCTGCATT CTTATCAGTG CTACACTATC
119451 AATATCTTTA ATTGTCCCAA AAAAGGTAGG TAAAAATGAT ATGACATTAT
119501 GATATTACCA CAGTATTTCT TTGACTTCTT TTGTCAATTG CCTGTTCAAA
119551 TTCTTTGCTC ATTTTCTATT AAGGTGTTAA TACTTTTATC CTATTCCAAT
119601 AGTTCTTATT GATTATATAA ATAATTCTTG CCTTTTATAT ATTTGGAATA
119651 TGAAATCCTA GGGTATCATA TTTGTTGTAC ATTTCAATTAC AAATATAATT
119701 TCTCATTTTT AATTTGTTGC TGTTTTATGG CCTAGTTTTG ACATGAAAAG
119751 CTTGCTAAAA ATATTATCAA GCCACTCATC TTTTACTTT GCTTTCTAAC
119801 TTTGATGCTT TTCTTAGCAA GACCTTCTTA CCAGATTTTA GATGTGTTTG
119851 CTTAATATTT TTATTCTGAT TATGGTTTCA TTTTTTACT TAACTCAGTT
119901 GTATATTATT TTGACTGAAC GGATGTGGCA AGGATCTGAC TTTATTTTGT
119951 TATGATTATT AAATAATTGT TTTGAGACTA TGTATTAAAT AAGTCCCTTT
120001 CCATGCTGAT TTGAAATATG TTCATCATAA ACTAAATACA TTTTGTGCT
120051 AATATCTATA TTCTGTAGAT TTCAAATCTT GTAGCTTTAT AGGTTAATAC
120101 ATGGGATGCG GGACTCTTTC TTTATTCTTT TCCAAAAATA TTAATTCCAC
120151 AATTTTTTTC TTGTAGATGA AATTTAGAAT CATTTTTGTA AAGTTCCATG
120201 AATTAATCCC ATTAATGTA TAGATTAGTG TTGGGTCCCT TTCTTTATGT
120251 CCTGACCAAA ATTTAATACC CACGTTTAAA AAAATCTGAA AACCAAATGA
120301 TGGAAATCCA AATATTTAAT AAATATATTA AAATGTAGTC AAGCTTATTA
120351 GTAAACAAGA CAATGCCAAT TTAACCACA GTGAAATACT ATTACACACT
120401 CACCAGATTG GCAATAAAGG GTCAGTTATT GCCAAGTGTG GGTAAGGATG
120451 TTCAACAAAA GGAACCCTGA TCTAATACTG GTCATAGTGT GAATTTATAC
120501 AACACTTTGG TAAATAGTTT GGAGTTACTG TGGTACACAG AAAAGTTACA
120551 CATTCTTATC ACCAACAGTT CCCCTGCCAG GAATACACTC TAAAGAGATA
120601 TGCACCTATA GGAATACTCA CATGTATAGG AACGTTTATG ACAGCATTGT
120651 TCACAATAGT CCCAACTGA AAATAACCCA AATGGCTATC AACAAATGGA
120701 TAGGTAGGTA AATTACAGTA TATTCATATA GCACTAAAAG TGAACAAACT
120751 TAACTACATG TAGCAACTTG GATAAATCTT ATACACATAC CATTGAGTAA
120801 GAAAAGTAAG ACACCAAAGA ATACAAGGAA TACGATTTGA TTTAATAGGA
120851 TTTAATTTAA TGGAATTTAA TAGAATACAA GGCATAGATT TTTTTTTGCT

FIGURE 3MM

120901	TTGTTAGTGT	TTCCTTTATT	ATAAAGCACT	GAAATAAATA	AATAGGTAGC
120951	TAGCCAATTT	ATCCACAGTT	TCTGGGAGCT	ATATAAGATA	GGCAAAGCTA
121001	AACTATTGTC	TAAAAATATG	TACATAGATA	TTGATCTATA	TAGAAAAACA
121051	AGAAAATTAT	TAACATAAAA	TTTAGCACAG	TGACTTCTAG	GGTTATGAAC
121101	AGAACAGGAC	ACAGTGATGG	GGACAAGATT	CTATTTCTTG	ACCTGTATCA
121151	TGTTTATGTG	GACATTTGCT	TATAACTGTT	TGCTAATTCT	GCAGTGTTTT
121201	ATTTACTTTT	CTGAATATAT	GTATAGAAAT	ACATAATGAG	CAATACCAAA
121251	CAAAATACTC	AGTGGCTTTT	TTGAAGGACA	CTTAGCCCTT	CTCTGACTCT
121301	CTTAGTACTC	TCTTAGGTGC	AGGGAATCTT	CTGGAAGGGT	TGGTGAAAGC
121351	CCTTCAATAT	CTTCCTGCTC	TGGTTTCTCA	GCTATTTGAG	GGCTCAAATA
121401	ATTACTCGTC	TGTTATGTTT	TTGTATGTTG	TCATAAGGTT	TCTTCTTAAT
121451	GTTCCACCAA	AATGCTTCAG	TGCCTTGCAT	ACCATGAATA	TTTTCTGAAT
121501	GAATAAATGT	GTATTAATAA	GTTTTAATGC	CTGAAAATAG	ACCAGGTAGA
121551	AGAGGATGAA	AAAGAATACT	GGATAAATAA	AGCTGGAAGA	AAGAAAGAAA
121601	GTGAAAAGAA	TACTCATGTA	AACCCCAAGG	ATAATCCAAT	ATGACAGATA
121651	CATAACTTGT	ATAGAGTAAT	GTTTATTCTA	TTAGGCATTT	TCTTAGCACA
121701	GTGGCTCTGA	TTATCCCTCA	AAGTTCCTTG	TAGCTTCTCT	GAGTGACGTG
121751	TCTGTCACCC	ATCACCTGGG	GACTATCTGA	TATGACTTGT	TGTGAGATAC
121801	TGAGAAGGGA	GAGCAGAAAT	ATAGTCCATC	CTGTCTGTGG	GAGTAGTGTG
121851	GGGTCAGGGC	CATTACCTCC	CAAATTGCAC	TGGGGGCTGT	GACTTGCAGA
121901	AAGGATGCAG	TGATTTCATGA	AAGGTGAATG	CACTAGGGAA	ATAGCCCTCC
121951	TTATTCCTGC	TGCATCAAGC	TCTTATAGTC	AGGGCCAGTC	CCGGGCATTG
122001	GGATGTAAAC	ACTCTACCTC	TCTAGTTGGA	TGTTGTTTAC	AGGATTTTAC
122051	TTAAAAAGAA	CATGAGTGCA	CTGGGTAGGG	AAAACCTGTG	TGTGCAGGAC
122101	CCATGTCATA	CCAGTTTCCT	TTGCCAGAG	CCAGCACTTT	ATACAGGAGG
122151	CTTGGGATCA	ACCATACAAA	TCTTTCAACT	AGGTCAATTA	TTATGAATGT
122201	TTGCCTCTCT	AGAAGCCTAC	CCAATGTTTC	TGAGCACTTT	ATAAGTGCTA
122251	GGCACCATAC	TGAGATTTTG	ACATGGATTA	TCACTGTAA	TTTCTAACTC
122301	TATAAAGATT	GCCTTATTGG	CTGGGTGCAG	TGACTCACAC	CTGTAATCCC
122351	AGTACTTTAG	GAGGCCAAAG	CAGGTGGATC	ACCTAAGCCC	AGGAGTTCAA
122401	GACCAGTCTG	GGCAACATGG	CAAGACCCTA	TCTCTACAAA	AAGCACAAAA
122451	ATTTTACCAA	ATGTGGTGGT	ACCCACCTGT	AGTCCCAGCT	ACTTGGGAGG
122501	CCAAGGTTGG	AGGATCACTT	GAGTCTGGGA	GGTCGAGGCT	GCAGTGAGCC
122551	ATGATTGTAT	CACTGCAATC	CAGCCTGGGC	AATGGAGTGA	GATTCTGTCT
122601	CAAAAAAAGA	AAAAAAGA	AAAAAAGA	AAAGAAAGAA	AGAAAGAAAA
122651	AAAAGGAAAA	GAAAAGGGAA	AGATTGCCTT	ATTGTTCTGC	TTTTGCTGTT
122701	TCTCAGGCTC	TGCCAACTTG	CTCAAGGTCA	CAGTAAGTGG	TGAAGGTAGA
122751	ATTTGAACCC	AGAGAGCACA	GCTCCAGAGC	TAATGATCAC	AACTATTGCT
122801	TGAGCAATTG	ATTTGTTTAT	TCATTCAACA	AATTTCTCTC	CAGTGATTCT
122851	GAATGCCAGA	TTCTGTATTA	GACAGTAGGA	ATATGGTGGT	GAGCATGCAG
122901	AAGCATTCCC	TGCCTTTGCT	TTGTGCTTCA	TTCTCCCTAT	TACATCCCTC
122951	AGGAGTTAGG	TTTATTCTTA	GAAGGGTAAG	TAAAAGGTTT	ATAGTGTGTC
123001	AAAGTGCTTA	GAGAATGCAT	AACTTGGGGT	CCTCTCTGGG	GGTAAAATTG
123051	ACTGTAGCTC	TGCCTTCCAC	TGGAATCAAT	TGAAAGAACT	ACAGTTACAA
123101	AGTGTAAGA	ACCCACAGCT	GTTGTAAAC	CTTACACTCT	CCAGAATGCT
123151	TGCTCCCTCT	TTTCTCCCTC	CCTCATCCCC	AACAGATGGC	TGCAAGTGCT
123201	TCCCTTGCTG	CTTCCAGGTG	ACTCTGAGAT	AGAGAGATTA	TCCAATGTAT
123251	GCTGTACCAA	ATTCTGCACG	TTGTCTGCGA	CTGTTATAGA	AATTTAGATC
123301	CTTTAGTTGA	AACCTTCCCA	ATCAAAACAA	ATAACATCTT	CTTAGCCTTC
123351	TTGATTTTCA	GGTGAGCCAC	ATATTTGAGG	CCCAATAGGA	CCCAAATTTT
123401	AATCGGTGCA	TGATCTAAAT	AAGCGAAGAG	TTTATCCATG	AAGGCCTATG
123451	CATGCCTGTG	TGTGTTGACT	GATGAATGAG	GCTACTGAGA	GAGATTAGAA
123501	AATTAGAAAT	GTTTGCCTGC	TGTGAGCAAT	CTAGCAACGG	ATGATAAACA
123551	TCCATAAAAG	TGTTTATATT	TTTGATCCTG	GTAATTCTCC	TTTGGAGGAA
123601	CATGTTGAGA	AAATATAATA	CTAATGTCTC	AGGGAATCAA	ACTGGTTTAA
123651	TTTTTCGTGT	TTTTTCAGCAC	CTGAGATGTT	CAGCTCCAGA	AAAGGAGCAG
123701	GCTATTCCTT	TGCTGTTGAC	TGGTGGTCCC	TGGGAGTGAC	GGCATATGAA
123751	CTGCTGAGAG	GCCGGGTACT	GTAGTAGCAT	TTCCTCTTTG	GTTATTTTTT
123801	CAGCAAGTTC	TATTTTAGAA	TGAAAGAATG	TATTGTTTGC	TAAGATCCAA
123851	GCAGTTCACT	TGAAAGCTGA	AATCAGCTAT	GCCATGTGAT	GTTGATAACA
123901	CCCCTTGAGA	TTTCTGCATA	GGTTAATTCA	TTTGTCCCGC	ATATGGGACC
123951	AACCATGTCA	ATTACCATTA	AATTACACAG	TTAAAAGTAA	AGGAATAATA

FIGURE 3NN

124001	TGGATATTAT	AAACTCCCAA	AGAGGGGAAA	TCAATACACC	TCACTAAATA
124051	TCTTGTGTAA	ATATCTGTGT	TTGTTTAAAG	AAAGTCATTT	TGCAGTCATA
124101	GTACAGGACT	CTAATTCAGA	CATACCTCAC	CAAGGCTAGT	GTGAATTATT
124151	AATACAACAC	AATTCATGCT	CTGTCTTGTT	GGATTTCTAT	CACTTGGCTC
124201	CTGGGTTCTG	GGTTCAGTGA	CAAATTAGAG	TCATTTCTTT	TTAAAGGAAA
124251	CATTTCTTAA	ACTAAGAATC	TCTTTCCCAG	AAAAAAGAGA	TGAAAAGAAA
124301	GCAAATATGC	TGAAACATAT	TTTATACAAT	TTGTGCAAAC	TATTACATAA
124351	TAGAAATACA	CTCCTTAGGT	TATATCTCAG	TCAGCTCTGC	TTACCATAAT
124401	AAAATACTGC	AGACAGGATG	GCTTAAATAA	CAGACATCTA	TTTTCTTGGT
124451	TATGGAGGTT	GGAAGTCTGA	GATTAAGATG	CCAGAATGGT	TGGGTTATGG
124501	TGAAATCTCT	TTTTGGCTTG	CAGATAGCAG	CCTTTTTTCT	GTGTCCTCAC
124551	ATGGCAGAGA	GAGATCTTTG	TCTTCTTATA	AGTCTACTAA	TCCCATCACG
124601	AGGGACCTAC	CCCCATAAAC	TAACCTAACC	CTTATTCCCT	CTCAGAGGCT
124651	CCATTTCCAA	ATACCATCAA	ATTGAGGGTT	AAGGCTTCAA	CATCTGAATT
124701	TTGAGTGGGA	CACAAACATT	CAGTCCATGA	CATTCTATCC	TTGACCCCTC
124751	CAATATTCAT	GTCCTTCTCA	TATGCAAAAT	ACATACATTC	AACAGTCCCA
124801	AAAGTCTTAA	CTTATTCCCA	TATCAACTCT	AAAGTCTGAA	GTCCAAAATC
124851	TCATCTAAAC	ATCATAGAAA	TTGTGTATGG	GTGAGACTCG	AGGTATGATT
124901	CATCCTAAGG	CAAAATTTCT	CCTCAGCTAT	GTACCTATAA	AAGCAGACAA
124951	GTGGCCAGGC	ACTGGCTCAT	GCCTGTAATC	CCAACACTTT	AAGAGGTAGG
125001	AGGCAGGAGG	ATTCCTTGAG	CCCAGGAGTG	TGAGACCAGC	CTGGGCCACA
125051	TGGGAGACCC	TGTGTCTACA	ACACCTTTTT	TTTTTAATTA	GCCAGGCATG
125101	GTGGGGCAAG	CCAGTGGTCC	CAACTACTCA	GGTGGTTGAG	GTGGGAGAAT
125151	CACTTGAGCC	CAGGAGGTAG	AGGCTGTAGT	GAGCCAAGAT	CATGCCACTG
125201	CACTCCAGCC	TGAGCTACAG	AGTGAGACCC	CATCATTAAG	CAAAACAAAA
125251	CAAAAAACAA	ACAAACAAAA	AACAAGCAAG	TTATGTGCTT	CCAAAATACA
125301	ATGATACCAT	AGCTGTGGGA	TAGAGAATCC	CATTCCAACA	TTTCAAAAGA
125351	GAAATGGGAA	AGAAGGAAGG	GGCATCAGCT	CCTAAACAAG	TCCAGAACAT
125401	ATCAAAGCAA	ATTCTATTAT	ATCTTAAAC	TCGAGAATAA	TCTTCTTTGA
125451	GTTGTTGGTT	TGCCCTCTAG	ATCTACACAG	GCATGGGAGC	AATCACTCTC
125501	ATGGCTGGGG	ATGGGGAGAG	GGGACTTGCT	TAAGTGGCTC	TCTACAAAGG
125551	CACTACCCAC	ATGGCTCTCT	GTGAAGGCTC	TGTCTACACA	GCTCTGTTGA
125601	GTGGTGGTCC	TGCCCTTCGA	AACAGAGGTG	GAGGCAACCC	TGCTCCCCAA
125651	GCCAGTGCAC	TCTGGACCTG	TAGTGGGAAT	GGCAGCCCTG	ATGATCTGTG
125701	AATCGCCCTC	ATGATCCTTC	TTCTTTTAC	TTGAAGGATA	GCACATGTTC
125751	ACAGCTGGAT	AGCATTACGG	TCCCAGCCTG	TAAAATCCAA	GAAGTCTGAC
125801	AGCCTTTCTT	CATAAATTCA	AACTGGCAGC	ATCTGCTAGT	ATAATCCCAT
125851	CTTTATTTCT	AGCTTCTGTT	GTGATAACTA	CTTGATTGTT	CAGCTACACT
125901	CTAGTGTGCT	CTTCAGAACA	GGCTTGCTCA	TTTTCTGCAA	TATGGATAGA
125951	AATCTTCAAT	TTCTGGTTGC	TTTTTGCTTA	ATTATTTTTT	CTTCAATTCA
126001	AACATTCCCT	TTAACATTTT	ACTATAAGCA	GACAGAAGGA	ACCAAGTTAC
126051	TCCTTCAAAG	TTTTGCTTAG	AAATCTCCTC	GGCTGGCCTG	GTGCAGTGGC
126101	TCATGCCTAT	AATCCCAGCA	CTTTAGAAGG	CTGAGGCGGG	CAGATCACCT
126151	GAGGTCAGTA	ATTCGAGTCC	AACCTGATCA	ACATGGAGAA	ACCCCATCTG
126201	TACTAAAAAT	ACAAAATTAG	CCGGGCATGG	TGGTGGATGC	CTGTAATCCC
126251	AGCTACTCAG	GAGGCTGAGG	CAGGAGAATC	ACTTGAACCT	GGGAGGTAGA
126301	TGTTGCAGTG	AGCTGAGAAC	ACAACATTGT	ACTCCAGCCT	GGGCAATGAG
126351	AGCGAAACTC	CATCTCAAAA	AAAAAAAAAA	AAAAAAGAAA	TCTCCTCAGC
126401	TAAATATCTC	ATTTTCATCAC	TCACAATTTT	TACCTTCTGC	AAAATAGTAG
126451	AACACAGTTC	AGACAAGCTC	CTTGCCACTT	TATAACAAGA	ATCACCTTTC
126501	CTCCAGTTTC	CAATAACATG	TTCTTCATTT	CTGTCAGACC	TCACCAGAAT
126551	CACCCTTAAT	ATCCATATTT	CTAGTGCATA	CATCCACAGT	CTTCCAGCTC
126601	AATAACTAGT	TCCAAAGTCA	CTTCCACATT	TTAAGGCATT	TGTTCCAGCA
126651	GCATTCCAAT	TCTCAATACC	AAAATTTTAG	TCTGCAATAT	CTGCCTTCAC
126701	AAAATACCAC	AGAATTGGTG	GCTTAGGCAA	CAGAAATTTA	TTTTCTCAGT
126751	TATGGAGTCT	AGAATTCTGA	GATTAACGTG	CCATCATGGT	TGGGTTCTGG
126801	TGAGGGCTTT	CTTCCTGACT	TGCAGACAGC	TTCTTTCTTG	CCCTCACATG
126851	ACGGAGAGAG	AGATAATCTC	TTTCTCTTCT	TTTTGTAATA	AGGCCACTAA
126901	TCCTATCCTG	AGGGCTCCAC	CCTTATGACC	TAATCTAACC	CTAATTACCT
126951	CCCAAGGGCT	TCATCTCCAA	ATACCATCAT	ATTGAAGGTT	AGGGATTAAA
127001	TTTAGAAATT	TTGGGGGGAT	ACATTCAGTC	TGTAACAGGT	TGTATACTCT
127051	CAAGGTCCCA	GTGATGGATG	CAATCAGTGA	TTCTCTAAG	ACCAAAGAGT

FIGURE 300

127101	TGAAGACCTG	ACTTTAGGAG	CTTGTTTATC	CCACAGAACT	AAAGAATTGG
127151	GTATCTCAAG	TCATCATCCA	GATACTGCAG	CTCTCCTCTC	CTAACTTTTT
127201	GGAGTCATTC	TTTCTGCTGC	TGTCAATAGC	CCTCTTCTTT	GGTCCCACAA
127251	CACACCATCA	TGATTTCTGC	ATTAAAAATG	CCATCTCCCA	AGTAATTAAC
127301	CTATTCACAG	TAAGAACAGT	TGTTAGAAGT	TGGGGTTATT	TCATCATGGT
127351	CCAATGGCTT	TATCTTGCTC	AGGAAATCAA	AGATGAGTGT	TTCTAAAGCA
127401	AAAAAAAGGA	GGATCTCACA	ATTGTATCTG	TTTCATTAC	TCTGCAGGGT
127451	CCATTTTACA	CCCAAACATT	CATTAGTTCA	TTGTTTGTAC	TCCTGCCTTT
127501	CCTGAGGAAG	TCATTGTAGC	ACTATTTCTT	AAGTATATTC	AAATTTGGAT
127551	AAGTTAGTCA	AATTGATGTG	AAAGGACCAC	CCTTGTAAGC	CAAATGTGTA
127601	AGTCCTACAT	AGGGATATTA	CCTGTTTTTA	TCTCCTGATG	GGCTTTTTTT
127651	TTTTCAAGTT	TCTAAATAAA	TCCAGTGAAC	AAGTAGATAC	GCTACTCATG
127701	ATTATATAGG	AAAACAGAGA	AGAGAAACAT	ACACTTACTT	AAAAGTAGAA
127751	ACATATCTGC	TCTTTCCAC	TTCACCCTTA	ATTTTTTTCT	CCCCAGCCAA
127801	TTTACTCACC	TTCTGTGGCT	GTGCTTCTGT	GTTAGACCCT	TGCTAGCTGC
127851	TTCTGGGGTT	CAGAGCAATT	GTGCTCTGCC	CTCATCTTTT	ATGACACACC
127901	TAGCAAAACA	GAAGCAGAGG	AGCGAGTTGA	AACAGACAAA	CGACTATCTG
127951	TTATTCTTCA	AACATGCCTA	GGATTGTATT	TAAGTATCAC	CTATCTAAAA
128001	GAGGTATTCT	CGCCTGCCTG	GAAAGAATTT	TGCTAAGAAA	ATTGTTTCTC
128051	TTCTTCCCAT	ATTATTTTAC	CTCTATGCTA	GTTCCCTGTG	ATTTGATATG
128101	TCAACTTTGA	CAAATTCATT	TTTCTAAAGC	ACAGATATGA	CCTTTTTTGT
128151	TAAGAAAAAG	AAACTACTGT	TGCTCCCCAG	TGCTACACAC	ACACACACAC
128201	ACACATACAC	ATACACACCC	TTCACAAGCC	TTATCTGCAC	CCCCGCCAC
128251	TCCCCACAAC	AAACTTCAGA	TGTCTTAGCT	TGGCATTCTT	CGGAATTAGG
128301	TCAACGTTTC	AGATTTTGCT	TCCATTTGTG	TATTTCTGAC	CCTTCATGAA
128351	CTCATTTTGG	CCTCTTAGAA	CTTCTTCCTC	TTCTCAAAGC	ATCTCTTGGG
128401	TTTTTTAACC	TCTTGTTCTT	TCGCCTATAA	AGAGAGTTTC	CAAGGCAAAC
128451	CTTGGTCTTC	TTTAAAAATC	ACTCTGCGTA	AGATTTGAAA	TCACTAAATG
128501	AAGTTTTAAT	AAAGGATATA	TCTTCATTGC	AGGGCTTTTC	AAAATCTTTA
128551	TAGCCAAGTA	TTTTGGTCAT	TTCTAAGAAA	GGACACACTA	TTAAACTATT
128601	CCAGTTCGTG	TTGGGGAGGT	TTTTCTAGAT	CTCTTTATAT	TCAAATTCTA
128651	TTCATACTTT	ATCACCTATG	ACAAAATAGC	ACTTTCTCTA	AAGAAACATT
128701	CTCTGACCTC	CCTATCTAAA	GTGATCCGAA	TCTCTTCCAA	ACATTTATTT
128751	ACTTTATGTA	TCCTGTGAAT	CTTTGGAATC	TAAGCTTATT	AGAAAATATA
128801	GAAAACCACG	AAAATGAAAG	CAAAAATCAG	CTGTAGTCTC	TAAGGCAAAG
128851	AACATTTCCA	ATTAAGAAAT	TAAACTCCCT	TTGACTTTTA	AACCCCATCT
128901	TAGCAGTTTG	TTGCATTAC	TTCCAACCTG	TTTCTGTTCT	CATAAGGATA
128951	CTCTATCTTC	AGATAGATAG	ATATAGATAG	ATGTGTTGTT	TTAGCAAAAA
129001	TAGAAGTATG	TTTTACCTTG	TTGAGCCTTT	TTTTTTTTCA	TTTCATAAGA
129051	TAAAATGTAC	AGCTTTCTAG	ATCAGAACAC	CTAAATCTAT	TTTCTTTTTA
129101	AGGATTAAAT	CTATAGGCAT	ATCAATTTTT	ATTTTTTATC	TCTTGTATAT
129151	TATTAGGTTG	TTAATTCATT	AAAGGTAAAG	TATGTATCTT	ATATAGGTTA
129201	GTATTATTCA	CAGTATTTAA	CTGTTTTTTT	TTTCCTCAGG	AGAGTCTTGC
129251	TCTGTCCCCC	AGGCTGGAGT	GCAATGGCCC	AATCTCGGCT	CACTGCAACC
129301	ACCCCTCCT	CTGTCCAATC	AACCCTCCCG	CCTGAGCCTC	CCAAGTAGCT
129351	GGGACTACAG	GCATATGCCA	CCATGCCTGG	AAATTTTTTG	TATTTTTTGT
129401	AGAGTTGGGG	TCTTACCATG	TTGCCCAGGC	TAGTCTTGAA	CTCCTGGGCT
129451	CAAGCAATCC	ACCTGCCTTG	GCCCTGCAAA	GTGGTGGGAT	TACAGGTGTG
129501	AGCCGCCGCA	CCTGGTCACA	ATATTTAAC	TTAAATAGGT	ATATAATACA
129551	TGGTTATTTT	CACTCACATC	CATGTGAAGA	GACCACCAA	CAGGCTTTGT
129601	GTGAGCAACA	AGGCTATTTT	ACCTGGGTTT	CAGGTGGGCT	GAGTCCGAAA
129651	AGAGAATCAG	CGAAGGGAGA	TAGGAGTGGG	GCCGTTTTAT	AAGATTTGGG
129701	TAGGTAAAGG	AAAAAGGGGG	GTTGTTCTCT	GGTGGGCAGG	GGTGAGGATC
129751	ACAAGGTGCT	CAGCGGGGGA	CGTTTTGAGC	CAGGATGAGC	CAGGAGAAGG
129801	AATTTACAA	GGTAGTGTCA	TCAGTTAAGG	CAGGAACCGG	CCATTTTCAC
129851	TTCTTTTGTG	GTGGAATATC	ATCAGTTAAG	GCAGGAACCA	GCCATCTGGA
129901	TGTGTATGTG	CAGGTCACAG	GGGATATGAT	GGCTTAGCTT	GGGCTCAGAG
129951	GCCTGACAGT	TATTGAATGA	ATGGAGAAAC	AAATCACTTA	GACACCTTCT
130001	AGGAAAAAAT	GACCAACTAT	GCTACCTGCA	ATTACGTTTC	AAAATGTAGC
130051	TTATCTGAAG	AAAAGGAAGT	AACATTTAAT	TACAAGCATC	AATACAACCTC
130101	AAGCACAGAG	GAAGTGTGCT	AAACAATTTT	CTCCATACGT	ACAAATTTTT
130151	ATTTACAGAA	AAGTATATGT	CTTAATGAGA	AAATGTGCTC	GAAAACATTTC

FIGURE 3PP

130201 TCATCATTTT TGAGTTTGGT TTCAGTCTTA ATGAATGTGT CCCTTAACTA
130251 TTAATCTGCT TTGTCATCTC TCTAACTCCC TACTATCTCA TTGCCATTGC
130301 AAAGGCAAAG GTCCACATCT TTTATAGTTT CATATTATCC AAAAGTGTTA
130351 ACTTAGGATA GATGTGTACA TAGTTTTGTA CTCATTGTAC ATGCTTAGCT
130401 GCAATTCTTT TGCCTTTGCA CTTCTGAAAT ACAACCATAT TCACAACACA
130451 TCATTTGTTC CCTTATAACA TTTCACCTTT TCCACTTTGT TTATTCTCTA
130501 TATGCTCACT GTTAGTTTAG ATGCTGCCTT AGGCTTTTAT GATATATACT
130551 GTGACTGCAT ACTGTAATTT TTCTCTATAG CATGTATCCC ATTTATTTAA
130601 GTGTGTGTGT GTGTGTGTAT ACAGTCTATA TAATAAATTT ACATGCTTCC
130651 TTAAGTAGAC TGTAGGCCCC ACCAACATAG AAACCATATG TGTCTTGTTT
130701 TTCATTGTAC CCTCAATGCC TAAGAAAGGT GCTGGAACAT GGTAGGCATT
130751 CAATAAATAA TTGGTAAATA AATAAATATA CAATTCTGGT AGTTGATTAA
130801 TTCAAATTAA TTTTAAAATT TAGAACTGTA AAAGTAAATT AAAAAATAAG
130851 ATAAAGACAA TGTGATTATT TTTTAATAAA CCAACAGGTC ATGGAGATTT
130901 TAAAAATTAA ATTCAGTCAT ATGGCCTTGT AAAGTAACTA GAGAAAAATG
130951 TACACACTTA AACCAGCTGC TTGTGGCATT CATCAGTTAA TTCATTTGTT
131001 TATAAAATCA TTTTATTTTC TAGGTGGCCC AGAAACAGTA GGTTGAGAAG
131051 CAGCAATGAA TTAATAATCA GAAGAAACAC AGAAAAAAGT AAAAAACAT
131101 GTGCATACAC ATATAAGCCT AGAAGCTTGA GTATACTAAG CCTAATCTGA
131151 TTCTTAATGA TAAACATGGT CTGAATCATA TGGAGTAACC TAACCCTTTG
131201 GCTACTAAAT TACCAATAAA CATTGATAAT GGTGATAAAG CATCTAGCAC
131251 TCCTTTACTG ATATTGAGTT AATGAGTTAT TTCTACTATA TAATTACCAA
131301 GACATATGAT ATAGCTATGG TCCTTTATTT AGTGTTGAGG GGGTAAATAT
131351 GGCAGTTGTT TTTAGATCTT ACTTAAAAAG CAAAAATGTT TGAATTAATC
131401 TCCCTTTCAA GGGCCACCTC CTGGCACTTC ATGGTTCCAT GAATAGCTGA
131451 CATTGACTTG CCATGTGTAA AATTAAGCTT TTCTTCCCAT CACTTTTCTT
131501 GAGGACTCAT TTTGCTGTTC ACTATTCATT CACATTTACA TATGCCCATT
131551 TTTACCTTTG TGTCAATAAT GATAAAAATC TCTCTCTTAT ATTGTGTCTA
131601 ATACTATTAG CCACTCACTC TGTTGAGAAA TTTACACATA TTATCTCCTT
131651 TAATTTTTCC AGCAATCTCA TGAGGTAGCT CATTTTACAG ATGAAGTAAC
131701 AAGCTCAGAA ATTGAGTGGA GAAGTTTAGC ACCAAATCCT TTTAACCTCA
131751 AACACATGAT TATTTTATAT TACCTCTTAA CACTGATTTA CTACAGGGAA
131801 AAACTTAAAC CCTTTCATTT CCCCCAATTT AGGTCATCCA TCAACAGTCA
131851 TTTATTAAAT ATCTTAAAGG GGCCAGGCAT GTGATCAATG TGTATATCCA
131901 TATTAAGTGT GCTGTGGCTA GTTAATCGAA TATGGAAATT TTGTTCATTA
131951 AATAAACATG TATTGTGCAC CTAAGTGAATG CTTGGTCTCA TGAACAAGAA
132001 TGATATAATC TCTGGCTGTG AGTATCTTAC AGTTCACATA AGAGACATGA
132051 AATTTCAAGT TTGGTGAGTC CCCTACAAAA TAATATAGAT AAAGGCTGTC
132101 CTCTAGTGTA AAGCTGTGAA AACTACAGCT AATCCACAGT TTTCTTTTGT
132151 TTAATTTCTT TTCTTTTAA ATTACTTTTC TTCAAAATTA AAAGTGTAGA
132201 AGAACCTGGT TCTTCCCCCA AAATTTTTTT TAAAAGCTTC TGCCTCATCA
132251 CAAAATTCTC CACCCTGCCA TACTCTGTGG AACCAGGGAC TCATAGCATT
132301 TGTGGGACTG GAGTTGATGT TTTCTGAGCA GTTTTCTGTC CTGAGCTTCC
132351 TCATTATGTT GCAGTGAAAG GGATGGTATG GTAAAATTCT GGATTTACTT
132401 GCAATCAACC CTTACATAAT AATTTTTTAG ACTTCCATTT ATTGAGGACT
132451 TGTCCAGTAT TTCGTGTAA TACTTATATA ATACCTTATA AAACAATTTT
132501 AAATCAGCAT CTCAGAGGCT GATTCAAGTCC ACTTGAATGT TTTGTTTGGC
132551 TCAGTGGAGT GTTCAACTTT AAAATTTATG GTATTTTAGA AGCGACCATA
132601 AATTCCTAGT GTCTCTTTAA GAAAAAGTAG GGGGTCTGGC AACACAGGAC
132651 CACCTACACA TATGGCAACG CAAGAGTCAG CTGGACAGGG TTAGAAATTG
132701 ATATAGATAT TTTATCGGTT GAAAGTTTAG CTTGGAAACA TTTGGAAATT
132751 TTTTTTTTCT TTTGTCCTAT ACAAATGAAG ACTTTTACTT CTTTTCTCCC
132801 TTAAGAGACC GTATCATATT CGCTCCAGTA CTTCCAGCAA GGAAATTGTA
132851 CACACGTTTG AGACGACTGT TGTAACCTAC CCTTCTGCCT GGTACAGGA
132901 AATGGTGTCA CTTCTTAAAA AGGTAAGAAG GAAGACTGCA TGTCCAAACG
132951 AAGTAACAAA AGGAAGCAGG CTCTCTGGCT TAAGTTTAGA AGTTAGTATA
133001 CAATATTGGG GACAGTCATG ATAGTATACA TTTGTAGAGT GTATTTTCTA
133051 GCTGTTAGCT TTCAAATACA TGGCTTCATT AACTCAACTC AGATTTCCCT
133101 TGGATGTCCC AAAGCCATCT TAAACTCAA GGAATTTCTT ATGCTTTGTC
133151 TTTCTGAAT ATCTTCTCAG GAAATTACTC TCAGTGACTG GCTTCTCTAT
133201 CCAAATCCAC TTACGCCAGC CAGCAACCAG GACTCATCTT GTCATACTGC
133251 GTATTCAATT NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

FIGURE 3QQ

133301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
133351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
133401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNCTAGC	CTTATAACGG	GTTTGTCCAC
133451	ATACACTTTT	ACCACTCCAT	TCTATTCCCC	ATGCAGCCCC	ACAGTGGTCT
133501	GTTAAAGGAC	AGTCCAGGAT	ATTTTCCTTA	TTCTTAGAAT	AAAGATTAAA
133551	ATAATTTTGT	GGTACAAAAG	TTCAAAATAC	CTCTCAAGCC	TTGTTTTTGA
133601	CTTTTGGACT	TTTGTCCCCC	CTTTGACTAC	ACATAAACTG	CTTTGGCCTT
133651	TTTCTTCTTC	TTTTCTTTCT	TTTCTCCTTC	TTCACTTTTA	CATACCAGTC
133701	TTCTCTCAC	CACAGGACCT	TTGCACATGC	CAGTACCTAT	TCCTGGAACA
133751	GTGCCTCCAA	TCCTAGTTCC	TCCAGTTCCT	CCTTGAGAGC	AGTACTACTC
133801	AATGTGGTTC	ACTGGTTCTA	GTCCATGAAT	TTTTTCTGCA	GGTCTATTGT
133851	AAGTAAAGAA	CTTGAGAGAA	GCATTTAGAA	ACTTTTATAG	CAATTGGACA
133901	CTGCTGTAGC	ATCTAAACAC	ATGATCAATG	GACTTATCTT	ATTGAAGAGG
133951	GTCCAAGCTT	GTTTGACGGT	TGTTGAACTC	AAGTCACAAG	GTGTCTATGT
134001	GGGGTGCTGC	ATACTGGCAA	TGCATAATAA	GACCACATAC	TGATTTCACT
134051	GGATTGGAAG	TTGAAACAGT	ACAAAAACAA	ACAAAAATAA	CTGACCCTTC
134101	TACATAGTTT	GGGAAGCACA	ACTTTAGCTC	TTAGCTCAAA	TATCACCTTC
134151	TTGGTGTAAG	TTACATAAAC	ACTATCTTTC	CTTCATAGCA	TTTTTCAGTT
134201	TAAAATTATA	CCCAGCATT	GTGTGATCCT	TGGTTACGTA	CCATTTTCTT
134251	CTTAGCTTCA	TGAGGGTAGG	GACCATGTCT	GACATGTGTT	ACCATGTAT
134301	TCTCAGCATC	TAACACAAAG	CCTGAGAAGT	GAAATTTGAC	AAGTATTCAA
134351	ATAAATGAGG	TCCACAGCTT	TCATCAGATT	TTCAAGGTAC	CCATCTTCAT
134401	CAACAGATG	AAGAACAGTT	ATAGCGGGAG	GTCAAAAGTG	TATATTGAGT
134451	GATGATACAA	AACAAGAATG	AGGGGCCCAA	GAGGAATGGG	CTTGGCCTTT
134501	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTGAG	GAGAAAATTG	CACCAGTTGT
134551	GGCTGGTAAT	GGAAAATAGC	TTTAGTGGCT	AAGGAGTCAT	CATTTGTGTC
134601	TCTTGTTTTT	GGAGTCAAGT	TCCTTATTTT	GGAATAGGGA	CATTGCATCA
134651	GTAATGTCAA	AGACATAGAA	TGGGGGATCA	TTTTTCATAA	GCAAATTCTG
134701	CTTAGTTCCA	AGACAGCCCT	GCTTCACTCC	ACAAATTACA	CCCTGAGGTT
134751	GCATGGTTGT	CATCTTCAGA	AGCATTCTCA	AGTGGGACTG	ACAATGCCTA
134801	TTTGAGCCAC	ACAATTGCTG	TGATGTTGGC	TCAGGAATGG	TTAAGGGGGC
134851	AAAAATCTTT	TATCTCAATT	AGTAAAATCT	AGAACTATAA	CAGTTACTTT
134901	AGTTACACCT	TATCTATGCC	GCCCCCAATG	TATTTTAATT	AGTTGTAAAA
134951	ACAGCTACAA	TTCTTAGTAG	GAAATGAGTT	CTACTTGTGA	AATGTATCAA
135001	CATTTGTCAC	CATAGGTTTT	CTACTAGGTA	CTTTGTATAA	ATAGCCTCCC
135051	ACTAATCCTG	ATTACAATCG	TATGAAATAC	ATTATTACCA	CTTTTTTTAA
135101	ACACATGGGT	AAACTANNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
135151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
135201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
135251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
135301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
135351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
135401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
135451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
135501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
135551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	CATTCCAGGT	TTATTCCTAA
135601	TGTGAGTCAA	TCCTAACAAA	GCCAAATAAC	TCCCATTCAG	TGCGCATTAC
135651	CCGGTGTGCC	AGATTCACAC	ATTGTCTCAT	TAGATAATCA	CACCAGTGTT
135701	GTAAAGAGAG	CCCCAATTCC	CATTTTACAG	TATGAGAGAA	TTGAGACATG
135751	CACAGGGTAA	GTTTGTCAAC	AAAGGTCACA	AAGCTAGCAA	GTAGTCAAGC
135801	TGGGATTCTA	ATCCAGGTGT	ATTTGCGACT	GAAGTTCTAG	CTTTTAACCA
135851	CTTTTTATGG	TCTGTTTTTA	TTGAAAGGAA	GTCCTAGTTC	CCCAAATAGT
135901	CATTCTCATG	AATCTGCTGG	GGTTTTTTTT	AAGTTTTCTT	TGATTCTAAA
135951	GATGCAGAAG	TTTGTGTCCC	TAGAGATCTG	AGTCAAAGAA	TTGAAAATTG
136001	TTGGAGTTGG	GGTGAGGAAT	TTATTTTAGC	ATTTGCCCCC	CATCCTTTGT
136051	TTGTTCTGTC	TCAGGGATTT	ATATTTGTAA	GGAAGTATAA	CCAAAGACAT
136101	ATAATTCCCA	TTGGATGGAT	AGCCAAACCA	ATGGACTTCT	GTGGTCTACT
136151	GCATTATGCT	GGTAAGAGCC	AGAGTCCAGA	AGCTTAGGCC	AAAGGTCCCA
136201	AGTGAGGCCA	CTAGCTCCTT	CTCTCTGCCT	AGAACTGAAA	TTATATGTTC
136251	AGTTGTAGGT	ATATTGGGCA	GAATAAGAGG	CTTCTAAAGG	GGCCTGTAGA
136301	ACCAATTGAG	TTTTCTGTTT	TGGCTGTCAT	GGCAGCTCAG	GCCTGCAATC
136351	TCAGCACTTT	AGGAGGCCGA	GGCAGGAGGA	TCAGGGGTTC	AAGATCAGCC

FIGURE 3RR

136401 TTGGCAACAT GGCAAGACCG TGTCTCTACA GAAAAAGAAA AAAAAATTAG
136451 GCAGGCGTGG TGGTACTTGG GTGTAGTCTC AGCTACCTAG GAGGCTGAGG
136501 TAGAAAGATC ACTTAAGCCC AGGAGTTTGA GGCTGCATGA GCAGTGATTG
136551 TGCCACTGCA CTCTAGCCTG GGTAACAGAG TGAGACCCTG TCTCAAAAAA
136601 AAAAAAAAT TACTCTTAAG CCCATATGAG GCATTTGCTG TGGGAATGTG
136651 AGAGTGTGAT CCTTCATGTA CACACAGCAG GAGGCATGCT CCAATGAGAG
136701 GGTAAGGAGA AAGTACAAAG TGAGAGAAAG GAGAAAGCAG GGTGGTGGAA
136751 TTGTACCTTA TGGAGCAACA GGAGGGTAGG TCTGAGTTCT TACCTCTCCG
136801 CTTTGTGGGG TCCATTAGGG GCAACTTGTA CCATAATTGA CACATGACAC
136851 AATGAAGGTC TAGGCACCCC AACTCTTGCT TCCCCCTCCT TCTATGTGTT
136901 GCGTCCCTGC AATTAGCCAT CAATGCTGGC TCAAAAGAAG TTCTACGTTA
136951 TGCTTCTCTG ACTTTAGTGT GAATCGGAAT CATCTGGGAA GCTCATTAAG
137001 GTGCAAGTTC TTGGACCTCA CATTCTGAAA TTCTGATTTG GGAAGTCTGG
137051 TTGGAGAACT GGGAAGCTGA GCAAGCAACT TAGGTGATTC TGAGTTACAT
137101 GATTATTAGA GCGCACTTTC GGAAACATAA CCCAAAATTT ATTTTCCACT
137151 TTAGAAAAAT AACTGTAAGT CGGCTTTTGT TTTTACTCAT TGAGGCCTAA
137201 TTGAGAGTTT AGAAAAATAA ACGAAGAATA TGAAAAACGA TGCTGGCAAT
137251 AAATAACGTA AAAGTTAGAG TGGAATCCC AGTGTATTAT TCATGGACTG
137301 CTCCGTTAAG ACTAAGTATT ATTTTCCGTA TTAGGTCTGC TGTGTTTTTC
137351 AGAATGATAC AGTAATCTGA GGATTGAGCC AACTGTCTTC CTTGCAGAAA
137401 GGCAGGCTGA ATTGTGATCC TACCTTTGAA CTTGAGGAAA TGATTTTGGA
137451 GTCCAAACCT CTACATAAGA AAAAAAGCG TCTGGCAAAG AAGGAGAAGG
137501 ATATGAGGAA ATGCGATTCT TCTCAGGTAA GCAGGTCCCC ACCAAACTCA
137551 GGGTCATGGG TATCCCCATG ATGGCTGCAA TATCTTCGAG AGCTTCTACT
137601 GGGAGGTCAT TTCAGCTTCC TGCTTTTGCT GCTTAGTGAA ATAGGAGAAG
137651 TAGATCAGCC GGGTTTCTAA AAGGGCAGAC CAGAGCTCCT CTGAGGATCC
137701 TAGCAGCAAC ATTTTACTTG TAGGCTTTCC GTCTAGAGTT CTGCCATTAA
137751 CTTGACTCAG TTATTTCTCT CTTCCAGTTC TCAATTCAA ATTTACAAAT
137801 TTCCTGGGAG AGGAACTGTC ATTGGCCAAG CTTAGGTCAG GGGATGATTC
137851 ATAAAATTAT GGTAAGGGG CAGGTTTCAA AGTACACACA TGGTTGTTTT
137901 GGACCTCACT CCTGCTTTGA GGAGTTTCTG GGAGCAGCCA ACCCTAGAGA
137951 TGATGTCTGT TCTTTGCCAC AAGCAGAATT TTATGATATC AAGCCTCACA
138001 GAAGAGTGTC TGTTACACAG AATGACGGAA TTCTAACATG GTGGAGCACT
138051 ATTGCTGGAT TTCAGGCTGA GTTAAATTAA CTTTGTAAC AAGTATATTA
138101 TTCTCTGTCA GAGTCAGAGC TCAGATTTC GTGAAGTAAC TTGCAAACAC
138151 TCAGTAGGAT TTTATACTCA CATGTGGCTC TATGAATTAT AATGATGATG
138201 AAGTAATAAA GTTACTTTGC CTCTAAAGGT CATCTATCTA TCCACACGAC
138251 CATTTCCATT CCTCCATCAA TCCCTGCCTC CCTCCATCCA TTCATTTAGG
138301 CTACTTTTTT TTAGTAGCTA TGATCTGCCA GGTCCTGTGC TAAAGACTGG
138351 AGTGAGAAAT GATTGAGATA TAATTTCTAT ACTCAGTGCT GTCCCTTTTC
138401 TCAAAGATTG TGTAGTCTTG TGGTAAAGAT GGCTCTGCAA ACAAATAAGT
138451 ATCCTCCATC TCCTTAATTT CTCTAGTAGT CAGGGGCCAC TATATATTTT
138501 AATGGACAAT TAACCAACGT TCACATCTCT GTCCTGTTTG ATCACAGAAC
138551 TGGCTTCTCG TCAGATTCCC TTCAGGAAAT ATTTTCTAGG ACCCTCCAAG
138601 GAATGCTTAG CTGTGCTGCT AACCCGCTT GCATATTGCT TGTCTCTGAA
138651 CTGTCTTCTT CCAATGGTC TGTTCTCAT GATCATGTCA TAACCAACCC
138701 GCTTCTCCAG ACTTGCTCCT TCCCCTGACC TAGCAGAACT TGGCTCAAGG
138751 TGGATACAGG CCTCTCTGAT AACAGGACCT AACATGTGAT AAAAACCAAG
138801 AGATCCTTTT TATTACAAGT TTTTAAAGTT TTAGAAATAA CTGAGCAATT
138851 TAGGAATAAC TTTTGACCAT ACGTACCATG CTCAACATGA TCTGCCCATC
138901 TTTCTGCCA CATCCTTGTA CTATCCCACT CTGACCCTCA CTTAAAACCC
138951 TCCAACCTCA CAGGCCCTGC AAGTGTCTCA CTCTCAAGCA CTGAACCTTT
139001 TGTTCTTCTT CAAGGCCTTT GCCCTTGCTC TTCCCTGTTC CTAGAATGGT
139051 CTTCCCTTTC ATCTTCACAT AGGGGGCTTC CTCTCATTCT TTATACCTTA
139101 AATATCACCT TGTCATTTCT GTTGTTGAAT TATAGGATGT TTTTACATA
139151 TTCTGGATAT TGGACCCTTA TCAAATATGT GAACTGCAA TAGTTTCTCC
139201 CTTAGTCATT CTACGAAGCC AGCATTACCC TGATACCAA CTGGACAAAG
139251 ACATCACAAA AAATGATAAT TACAACTGA CATCTGTTAT GAATATAGAT
139301 GCAAAAATCC TTAACATATT AGCAAGGTGT TCAGTTAGGC TTTTGACTTA
139351 AGATGTTTCT TCTTTTTTAA TATTGGTGT TATAGCTATA AAGTTCCTTC
139401 TGAGCACTGC CTTACCTAT CCCATAAGTT TTGGGATGCT GTGGTTTGT
139451 TTTAATTCAT CTCTAAGTAT ATTCTGATAT CTCATGTGAT TTCTCTTTTT

FIGURE 3SS

139501	GACTCTTTTT	TTAAGAGTTT	GTTGTTTAAT	TTCCACATTT	TTGTGAATTT
139551	TCCAGTTTTC	CTTCTGTTAT	TGATTCCTAC	CTTCATTCCA	ATTATTTTCAG
139601	TCTTTTTTAAA	TTTTTTGATA	CCTGTTTTGT	GGTTTCCTTC	CATGGTTTCC
139651	TTTAACTCTG	AGCATATTCA	AGACGGTTGT	TTTAAAATCT	CACTCTAGAA
139701	AGCTCAATGT	TTGAGCTTCC	TCAGGACAAT	TTCTATCCGT	TGATTTTAAAG
139751	TCTTTGAATG	GCAATATTTT	CCTGTTTCTT	TGTGTGCCTT	GTGATTTTTT
139801	TTCTGTTGCT	ATTGAAAAC	CGACATTTAA	ATATGATAAT	GTGGTAACTC
139851	TGGAAATCAG	GTTCTCTCTT	TCTTCATGGT	TTGCTATTTT	TTGATTGTTG
139901	AAGGCTGTAG	TTATCCATTG	TTTAGCGACT	TCTCCAAACA	ATGTTTGCAG
139951	AGATTGTCTG	CTTTGTTGTG	TCATCACTGA	AGTTTCTGTT	ACTTTAGCCT
140001	GTGCTCAGCT	AATGTTTTGA	CTGAGATTTA	ACACCAAGAG	CATTTTTTAAAG
140051	TTGTTTTTCT	TTTCTTAAAT	TAGTGTTTAC	TTGGTTCCAG	TAAACCTTTG
140101	AGTGCTTTCC	GGAGTTTTGA	CAAAGTTGGT	TTTGACAGTA	TCTGCTTGTT
140151	TTTTTGATGT	TTCTGTTTCA	AGATGGGGCT	TGGAAGTGT	TACATCAGCA
140201	TTTTTCTCTA	GATTCTTCTA	ATCTTGTACC	CCAGGTTCAA	AAATAAAAGG
140251	TACTTTGCTT	CAAAACAAAG	AATAGTCTTT	CTTCCAAGAA	GAATCAGAAA
140301	GATTATGAAC	TATTTTTCTG	ATTCTTCACT	CTATTTTCTC	TCTTTTACAT
140351	TAAGGCTTTT	AAAACATGAG	TCAATCTTAC	CTTATTATAT	TATTAACATG
140401	CTCGTTCATT	CATTCATTCA	TTTATTCAGA	TGACTGTAAA	ATTCCTGCTT
140451	TGTTAGGAAA	TATTTCTGAC	TAGGTGGTTA	ATGCTATGGT	TAGATACACA
140501	AAGTGCTGTG	GGAATTGCTC	ACTGGACCTG	AGTGAAGGGT	TAGGATAGGC
140551	TTTCCAGAGG	AGGCAACATT	TGATCTGGTT	CCTCCAGATT	GAGCAGAGGT
140601	AGGTGAGCAT	ACAGGAAAGG	ACAAGAGCAT	TTCAAGGCTG	GCACATCTCA
140651	GGGCACAGGC	AGATCTTAAT	GTTACAGAGG	AAATAAAATG	ACAGGTGGTT
140701	TCTGATCATA	GGAATTACCC	ATGCTGTGTT	CAAAAGGCTT	GTGACATTAC
140751	TCATCCTCCC	TGCCTTTAGT	CTTATCTAGA	GCCATTCACT	GAAGGCATTC
140801	CTTCAGCAAA	ATCTAACAAG	AACATACACC	ATATCAGTAT	CATATTAGCT
140851	ATAGCTTAGC	CCCATTCTCT	CCCCACTGTG	TGTAGCTCAG	AGTCACCTTG
140901	TTACTCTAGA	GCCAAATTCA	TCACTGTTTA	GGTACCCACA	TTAGAAAAGA
140951	GTCAAGTGTT	GGCAAGGGAA	TTCCAATCAA	GCCACAAGCC	TGGAAAAGGA
141001	GCTCTCTATT	CTGAGCTCTC	TGAGTTCTCT	ATTCTGTTTA	ATTGGTCTAT
141051	GCGTCTGTCG	TTGTACCAGT	ACCATGCTGT	TTTGGTTACT	GTAGCTTTGT
141101	AGTATAGTTT	GAAGTCAGGT	AGTGTAGTAG	TGTAATAATG	CCTCCAGTCT
141151	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	GCTTAGGATT
141201	GTCTTGACTA	TTCAAGCCCT	TATTTGGTTC	CATATACATT	TGAAAATAGT
141251	TTTTTTTTCT	AATTCTGTGA	AGAATGCCAA	CAGTCATTTA	ATGGGAATAG
141301	CATTGAATCT	ATAAATTACT	TTAGGCAGTA	TGGCCATTTT	TATGATATTG
141351	ATTCTATCTG	GGAACCTGGA	ATGTTTTTCC	ATTTGTTTGT	GTCCTCTCTG
141401	ATTTCTTGA	GCAGTGGTTT	GTATTTCTCC	TTGAAGAGGT	CCTTCATTTT
141451	CCTTGTTAGC	TATATTCCTA	GGTGTTTTAT	TGTTTTGTAG	CAGTTGTGAA
141501	TGGGAGTTCA	TTTATGATTT	GTCTCTCTGC	TTGCCTGTTG	TTGGTGTATA
141551	GGAATGCTAG	CAATCTTTGC	ACATTCATTT	TATATCCTGG	GTTTCAGTAT
141601	TTTAAAAACT	TACTTCAGGT	GATTCTATGT	GTGCAACCAT	GATTGAGATA
141651	CACTGTTATA	GAATCTAGGA	TGTGATAAAC	TAGAAGAACA	TAACTAAAGT
141701	TTTGCATTTT	TCGGGTGTCT	CAGTTTCCTC	ATTTATAGAT	GGAGTTGGTA
141751	TGTGTACCAA	GTTTATAGGC	TTGTTCTGAG	TAAATTAGTG	CATGTAAAGT
141801	GCTCCACAGA	ATGTTAGCTG	TTGTGATGCT	TTACTTTCCA	TTGCACTTCC
141851	TGACTCCTAG	CCTTTCTTTT	CCTTGGCTCT	TTTTATGCTC	ATGTCAGATG
141901	CCTCTATTGT	TTCTTTCCCC	CCAGAATATC	CTCCACTTTA	TCTTGCTCTG
141951	CTCAACATCT	TTAAAGTATA	GAATCAACAG	ACTGCCATGC	CACCCAGTCT
142001	GTCTGACAAT	TGAGGCAAAT	TCCCTAAGTC	CTCTTGTTCT	CCTTCTGAGA
142051	TTTCCACCTG	CTCTAACCCC	TTCCAATATT	TCAGATGCCG	TCTCCAGCTA
142101	TGATAATTTA	ATCAGTGTTT	GCTCTGCTCA	TCCTTGATAT	GTGAGTCCTA
142151	AGATTTTAAAG	CGATCATTTT	CCTTCTAAGT	CATGTATGAC	CCATTAGTCC
142201	CTCCATTCTT	TTTTCTTACC	CCTCATTTCA	TATTCTCTTT	ATGGCTACTC
142251	CTGTTGATGT	ATCCATTTGG	CCACACTTCT	TAAACTTCTC	CACCTAAAGC
142301	AGAGGAAAAA	GAACAAGTTG	AACATGAACC	CTTTAAGGGT	AATGGGGTCT
142351	GAAGTGTCAC	ACTAAAAGGT	CATCTGCAAG	TATGTATTTT	ATATCTTTGT
142401	TTAAATAAAA	TAGTTACATA	GTAGAGGGAA	AAAAAATCCA	TGTGGATTTT
142451	GCATTTCACT	CAATTATAAC	CTTGATTTT	AATGCTAAAA	ATTATTTTTC
142501	CTAAAATCTT	GGGGTAAAAG	TGTTGCTCCA	AAGAGCTTTT	ATCAGATTAT
142551	GTTTATCCTG	TAGCTGCCTG	TCCCCTGTGA	CCGATACTGG	AAACCCTCAG

FIGURE 3TT

142601 GATTACAAAT GCCTCCGTTT GCAAGTAAGA GTGAAATACA GCAGAACTGT
142651 GTCTTCTCCT TTGTCTTGTT CCCCATCTCT CTTCTGTGCT TTGTATTGTT
142701 TCCTCTCCTG TCACCTAAAC AGGCACTCTG AAAGAAAACCT CTCCAGTACT
142751 GGAGAACTTA GCATATTCTA ATTCCTAGGT TAAAAAATAA TAATAAATGA
142801 CTGAATGATT TTTTAAAG AATATTTTCC ATCAGAAGAA ATTTGGAAGT
142851 ATTTTGTTGC AGAATTTTAA AACATTTGAT CTGGGTCTAA TTCTGTCCTG
142901 GGAAGGTAA TCATCTTTT TTGAGGCTAA ATTTTCTCAT TTTGATGAAA
142951 AAGTCATCAA TAGATGTTGA AAGCTGGACA GTGCAGTGTC AAAGCAAATG
143001 CTTTGCATGT CTGCAAGAAA GTCACAAATA AAGAAGGCTC TGCTGACTAA
143051 AAGAGAAAGA TACTTAATCA ACTCCAGTAC CATTGTTGAG GGAACATTC
143101 TATCAGGATT CAGTATAGAG AGATATTTT AGGCTATTCA CAAAATCCAG
143151 GTAGAACCTC CAAGCTACAT TTACAATAAT ACTAGCTTTT AGATTAATTG
143201 TTGTTTTTTA AATATGTATT AGCCTCTTAT ACAAATATAA GGAGTTACAA
143251 ATTATTATTA CAATAATCTT GGCTTTCGTG ATTGTCCAAT GTATTTACAC
143301 GTACCGAGAG CTTTATTCT CCGTATAGTT TCAAGTTACT GTCTCGTGTC
143351 CTTTCATTTT ACCTTGCAGG ACTCCTTTGA GCATTTCTTA CAGGGAAGTT
143401 CTAGTGGTAA TAAACTCCCT CCACTTTTAT CTGGAAACAT CTTAGTTTCT
143451 CTCTCACTTT TCAAGAACAG TTCTGCCAGA TAGAGGACCC TTGGTTGATA
143501 GGTTTTTTTC TTTTAGCACT TTGAATATAT CAGCCCACTG CCTTCTGGCC
143551 TCCAAAGTTT CTGATAAGAA ATCTGCCCCT CATCTTATGA TGACTTGAC
143601 AAATTTTTTC TCTCTTGCTG CTTTCAAGAT TCTCTCCTG TCTTTGGCTT
143651 TAGAAAGTTT GCTTATATTG GCTGGACATG GTGGCTCACA CCTGTAATCC
143701 CAGCACTTTG GGAGGCTGAG GCAGGCGGAT CACTTGAGGC CAGGAGTTTG
143751 AGATCAGCCT GGCCAACATG ATGAAACCCC TGCCTCTACT TAAAATTCAA
143801 AAATTAGCTA AGTGTAGTGG TGCACACCTG TAATCCCAGC TACTTGGGTG
143851 GCTAAGGCAA GAGAATCTCT TGAACCCAAG AGGAGGAGGT TGCAGTGAGC
143901 TGAGAGCATG CCACTTCACT CCAGTCTGGG CAACAGAGCA AAAGTCTGTC
143951 AGAAAAAATA AAAAAGGAAA GTTTGATTAT ATTATGTGTC AATGTGGGTC
144001 TTTTGAATT CATCTTACTT GGGATACACT GTGCCTTTT GGATTGGGG
144051 GCTCATGCCT TTCAGCTATG ATTTCTTTAA GTATTCTGTT TTCCTTTTTC
144101 TCTCTCTTCT CCTCCTGGGA CTTCCACAGT ACGTACACTG GTTTGCTTGA
144151 TGGTGTTCCA TACATTCCTG TAGGCCAGGG ATGTCCAATC TTTTGGCTTC
144201 CCTGGGCCAC GTTGGAAGAA GAGGAATTGT CTTAGGCCAC ACATAAATA
144251 CACTAACACT AACGATAGCT GATGAGCTAA AGAAAAATCA CCCTCAAAAA
144301 AATCTCCTAA TGTTTTAAGA AAGTTTACAA ATTTGTGTTG GGCCACATTC
144351 AAAGCCATCC TGAGGCACAT GTGGCCCATG GGCTGTGGGT TGGACAAGCT
144401 TGCTATAGGC TCTGTTTATT ATTCTTCAAT CTTTTTCTT TCTGTTCTC
144451 AGACTCAGTA ATTTCCACTG TCCTGTCATC AAGTTTGATA CTGATTCCTT
144501 CCTTGCCTGC TCAATTTTGC CGTTGAAACC CTGTAGCAAA TTTTAAATT
144551 TTAGTTATTG CACTTTTCAG CTCAAGAATT CTTTTTCTT TTTTCTTAG
144601 GTTTTCTATA TTTTATTAA TACTTTAGTT TTGTTTGCAC ATCATTTTCT
144651 TGATTTTCTC TATATCTTCC TTTAGCTCTT TGAGCATCTT TAAGATAGTT
144701 GTTTTGATGT CTTTATCTAG TAGATCTACT GTTAGGTCTT TTTAAGGGAT
144751 AGGTTTTTTG GTTTATGTTT TTTACTGTGA ATGAGCCATA CTTCTCTATT
144801 TCCTGGCATG CCTTGTTATT TTTTGATTG GACACTTGAA TCTAATAATG
144851 TGATAAATCT AGGAAATCA GATTTCTCCC ATCCCAGGG TTTGCTGTTT
144901 TTTGTTATTG TTTTATTTT TATTTTAT TATTGTTGTA AGCTGTCTCC
144951 ATGCCAAGGA TCAGCTGAGG TGTAACATA AGATCTTCTT AGGTCTTTTC
145001 TGAGCCTGCA CCCTTCCCTG GTCATGTGCA GTCATTTCTT AATTTTCCCT
145051 ACACATGCAG TTGTTTTTGA ATGTCCCAGC CTTTCACTG TGGCTCCCAA
145101 AAGGAGGAAA GGAGAAAAAT GAAGAGGGTG AAAAGGTGCT GGCCCTTTAA
145151 TTCTCCGAGA AGTCACTTCA GCCTGAGGGA GAGTGGCTGG CAACATTGTG
145201 GGGGAGGTGC AACAACAATG GCCATCAAGC ATTTTGTTTG CACCTCTGTG
145251 ATCAGAAGCA GCAGTGTGCG AAGCACAGAT CCTCAGAATT TGGAGAACAC
145301 AGTTCTTGCT TTCCACCCTG ACTCTCACAG GCTGTGTGCA AACTGCTCCG
145351 GAACATGTGT GTGCTCAGCT CCCTCCCATG GGGCTGGAGG ATGAGGGATG
145401 GGTAAGCTGCT GCTGTGCTAA GAGCTTAAGT TGGTCATAAT TAACTGCGCT
145451 TTGCCACCCA AGCCTTCCCT GAAAGTTGCA AGCTTTCAAT AGACTCCAGA
145501 GTTCTAAAAT AGTGACATTA GACAGATTCT GCCAGTGCAA TCGCTGTCTA
145551 GGAGGGGAGA CAGATTCCTG GTGCTTCTG TTTTGCCAGC TTCCCGGAAT
145601 CTTCTTCACT TAGCATCCAT TTTGAAGATA CTAATTACTT CTCAATTTGG
145651 GGCTATTCAT TGAATAGACT GTCACCAGGT TATTGGCTGT TTGAAGATTC

FIGURE 3UU


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145701 TCATTTGTCT GCTAACTATA CCTCTATTTT TTTTCTACGT TCACCTGGAA
145751 GACATGTCTT CTTCAAGAGC ACCTTGACTC TGTCCAGAAG GAGTTCATAA
145801 TTTTCAACAG AGAAAAGTAA GTAATTCCTG GGAGAACAAC AGCCCCAGAA
145851 ATGGTGGCAT GTTTCAGCCA GACTTTACTT GCAGAGAAAA TATATTTTAA
145901 ACATTTTAAA AATTATTTTC TAATTGGGAA AATGATGCAA TCTATTATAG
145951 AAAATGTAGA AACCTTTTTT GTAAGGTATT TAACATTTTT TAATTGATAA
146001 ATTAGCCTAG CATCAAGTTT TTGTTTGTGA GAAGGGAAGA GGAATTAGGA
146051 TTAAACACT TAAAAATCAA AGCCTTTTAA AAGATTTCTT TGGCTCATGC
146101 TTATTTATAA ATTATTGGGC TTAATATTAT TTCAAAGCT TAAACCTTTC
146151 ATTTTATTTT TCAAAGAATA AAACATCTTT TTTTTCTTT TCTTTTAAAG
146201 AGTAAACAGG GACTTTAACA AAAGACAACC AAATCTAGCC TTGGAACAAA
146251 CCAAAGACCC ACAAGGTGAG GATGGTCAGA ATAACAACCT GTAAAGGCCT
146301 CATGTCTTCT TCTTGGGACA ATCTCATGCC AGAAACTTCT AATTACATAT
146351 GTCAAGAAAA GCTGACAGTA GTTCTTGCCA CTCCACACAC CATGACTTAG
146401 AAAATGTGAA TGAATATATT TCAAAAAAGG CAGCACAACA CAGTGAAGGG
146451 TCCTGGGCCT GAGCTCCTGG GATGTCATTT CACATCAATC AACTGTGTGA
146501 TCTAGAGCAA GTCACCTAGC CACTTTCTGT GCTTTACTTT ATTTATCTAA
146551 AATGAGAGGG TTATACTAGA CGAGCCATAC CCTGCCTTT TAGTGCTATA
146601 GTTGTTATTC TAAACCGCCT TTATTTTAT TTTAAAATTA ATATATGAAT
146651 ATAGATTTAT TTTTCCACTC CTTCTAATTA TGCAGTGACA AATGGACAAA
146701 TGGACACAGG ACTCAGTGAG ACTTTTCAGA CCTCGAAAGT TTCATAAAGT
146751 GGTCAGAATG CCCCAGGCTA CTTGGATAAA GATAAGGAAT TCTATCAGGG
146801 AGGCATGAAT GGAATCAGAT TAAAAGTAAC AGAGATGGAT GAGGGCCTTC
146851 CAGTGATATG CGTGAATCAG CATTAGATCC GCTTATCTCA GCTGGCAGGA
146901 GCCTGCTGTG CACACCACTT CCCAGCTCCC TCTTCAACAA TGTGAAAGTG
146951 GTAACCTGAA ATTGGTAATA ATGGGAGCAT TTACACCACG GAAACTGGTA
147001 AATGCTCGTT TTTTCCCTCC TAACAAGTGA ATTGCTAAAT ATTAGCCCAC
147051 CACTCCTTCC AAGAAGCATG TTCCTTGAGG GCTAATTGTC CTCTGAAGAT
147101 TAGCAGAGAC CTGTATCTGG AGAGGATCAG AAAAGAATGT CATCACACTG
147151 AAAGTATGTC CACCTTGCAG TTCAGAAAAG TTGCATCTTA TATGGGGTTT
147201 ATTGTCTAAG TTAGAAATGA ATTTAGAAGA TAGTAAAATT TACCGTTGAA
147251 AAACCCCTTA AATTACCCAT AAAGTATATG GGAAGTATCT TTTCTCAGTA
147301 AAGCCCAATA CAGTGTCAAC TTTCACTAAT GAAACAAGCC ATTGCTTTTG
147351 TTTTGTTTTG ACTTAGTTAT TTTTATTTT GGTCTCATTT TGGCTAATAC
147401 CAGATGAGCT AAAATGTTGA ACAAATTATA CTTGTTTTTA TAGACTAGAA
147451 TTAATCTTTT TTTTCTTTTC AGGCAGAGTC TCACTCTGTC ACCCAGGCTG
147501 GAGTGCAGTG GCATGATCTC TGCTCACTAC ATCTGCCTCC CGGGTTCAAG
147551 TGATTCTTGT GTCTCAGCCT CCTAAGTAGC TGGGATCGCA TGTGTGTGCC
147601 ACCATGTGTA GCTAATTTTT TGTATTTTAA GTAGAGATAG GATTTTGCTA
147651 AGCTGGCCAG GTTGGTTTCA AACTCCTGGT CTCAAGTGAT CCGCCACCT
147701 TGGCCTCCCA AAGTGCTGGG ATTACAGGCG TGAGCCACCA AACCTGGCCT
147751 TAGAATTACT CTTAGAACAG TGGAATGCCC ACACATCCAA GACAGGCAAG
147801 TTCATGGAGA CTAAGGGAAC AGTGGTATCA TGTCTCCCTT CTCCCTTG TG
147851 CTTACTACAA GAATGGCAGG CAGAATTCCC TACTTATTTA AAATATCACT
147901 GATGTCTCAC TCTTTTCTT TATATTTTAT TTATTGATTT GCCACAAAGT
147951 TTAATTCACC TAAGTGAGAC GTGCATATGA TGTAACCTCA CTGTACAGAT
148001 ACACAGATCT TTACAGAAGA ACTATTTTTG GCAACCCCTA TGCCCCTGGG
148051 TAGGGTCCAG AAGTGAACAG GCTTGGTGGG GGATTGTTTT CACCTCTTGG
148101 CTAATCAGAG TACCTAAACC TGTCCTTACT TATGGAGAGC ATGTGTCACA
148151 CCAAGATGGC AGTAAGCTGG CAACTGCGAA GACCTGACTG ATGCCCATTT
148201 GGGAAGCCAG GCAAGTGAAA ATGGACCGAA GAAACAGAGA TGGCTGTCTT
148251 TTATGCAGGG CTTTCCATA AAGAGGTTAC ACTGGGGCAA CCAAGTATGT
148301 GTAGAAAGCC AGAGCTAAAC TTCAGCTTGG CATTACAGT TTTCTCTTCA
148351 CTGAGCTAAT AGGCCAGAG TTTCGGGCAG AGCTGTGAAA TAGTGCTTCT
148401 CTAATAGCAA CCATATTATT GTTACATAAT TAAAAGCCAG CTCTTTTGTT
148451 GTTTGTTTGA TTCCTTTTCC CTACAGTTCC CACATCATTT GTCTGTGCTA
148501 TTCTGTTTTT CTCCAAACAC TATAAACTTG AAGCAATTGC CCTGACTCGA
148551 TTTCAAGAGAA GGGGATG
```

(SEQ ID NO: 3)

FEATURES:

Start: 2003

Exon: 2003-2054

FIGURE 3VV

Intron: 2055-22564
Exon: 22565-22567
Intron: 22568-39943
Exon: 39944-39999
Intron: 40000-41067
Exon: 41068-41219
Intron: 41220-79497
Exon: 79498-79500
Intron: 79501-86044
Exon: 86045-86218
Intron: 86219-105152
Exon: 105153-105190
Intron: 105191-113211
Exon: 113212-113301
Intron: 113302-123667
Exon: 123668-123765
Intron: 123766-132805
Exon: 132806-132922
Intron: 132923-133775
Exon: 133776-133848
Intron: 133849-134127
Exon: 134128-134155
Intron: 134156-134530
Exon: 134531-134545
Intron: 134546-135588
Exon: 135589-135601
Intron: 135602-137397
Exon: 137398-137526
Intron: 137527-145751
Exon: 145752-145816
Intron: 145817-146200
Exon: 146201-146291
Stop: 146292

SNPs:

DNA Position	Major	Minor	Domain	Protein Position	Major
210	G	A	Beyond ORF(5')		
332	T	A	Beyond ORF(5')		
1131	T	A	Beyond ORF(5')		
1221	C	T	Beyond ORF(5')		
2011	G	C	Exon	3	A
4309	A	C	Intron		
4345	C	T	Intron		
4651	T	C	Intron		
5037	A	G	Intron		
5126	C	T	Intron		
6048	G	T	Intron		
6229	-	T	Intron		
6328	G	A	Intron		
6350	C	T	Intron		
6382	G	T	Intron		
6434	A	-	Intron		
6722	A	G	Intron		
6751	C	T	Intron		
6752	A	T	Intron		
7070	T	C	Intron		
7306	T	C	Intron		

FIGURE 3WW

7339	A	G	Intron
7531	G	A	Intron
8902	A	G	Intron
9471	G	A	Intron
10023	C	T	Intron
10594	C	G	Intron
11233	C	T	Intron
11295	-	A T	Intron
11534	-	T	Intron
11757	T	C	Intron
11951	G	A	Intron
12901	C	A	Intron
13040	C	T	Intron
13081	A	G	Intron
13173	G	T	Intron
13272	C	T	Intron
13333	A	- G	Intron
13485	C	A	Intron
13933	A	T	Intron
14086	G	A	Intron
14094	C	T	Intron
14141	G	-	Intron
14831	T	C	Intron
15319	T	C	Intron
15321	T	C	Intron
15335	A	G	Intron
15477	G	A	Intron
15650	T	C	Intron
15880	C	T	Intron
16944	G	A	Intron
17061	C	T	Intron
17494	G	C	Intron
17642	T	A	Intron
17737	A	C	Intron
18068	A	G	Intron
18339	C	T	Intron
18361	C	T	Intron
19218	A	G T	Intron
19298	C	A	Intron
19629	C	T	Intron
19679	G	A	Intron
19981	A	G	Intron
20014	C	T	Intron
20280	C	T	Intron
20612	A	C	Intron
21966	C	T	Intron
22017	T	C	Intron
28009	G	A	Intron
28059	T	A	Intron
28580	T	C	Intron
28595	A	C	Intron
28823	-	A C	Intron
28827	C	G	Intron
28842	G	T	Intron
30128	T	A	Intron
30150	T	G	Intron
30188	C	T	Intron
30453	T	C	Intron
34990	A	G	Intron
35203	G	A	Intron
36206	G	A	Intron
39692	C	T	Intron

FIGURE 3XX

40095	A	G	Intron
40191	T	C	Intron
40287	G	A	Intron
40384	T	C	Intron
40510	G	A	Intron
41664	C	T	Intron
48324	T	G	Intron
48423	C	T	Intron
50015	A	C	Intron
50095	T	G	Intron
52300	A	G	Intron
52623	C	G	Intron
52773	G	A	Intron
53140	G	A	Intron
53848	A	T	Intron
57636	-	A	Intron
57693	A	T	Intron
58585	T	C	Intron
58649	T	C	Intron
62188	A	T	Intron
63478	G	A	Intron
65457	C	A	Intron
69947	A	G	Intron
69981	C	T	Intron
71165	G	A	Intron
71347	A	G	Intron
71903	A	G	Intron
71908	C	T	Intron
71994	G	A	Intron
72010	T	C	Intron
72612	G	A	Intron
73294	A	G	Intron
73385	C	G	Intron
74121	G	A	Intron
75646	A	G	Intron
75698	C	T	Intron
79007	-	A	Intron
80043	A	G	Intron
80499	G	C	Intron
80940	A	- T	Intron
81615	G	T	Intron
82599	C	-	Intron
82952	-	G	Intron
85020	A	T	Intron
88843	C	T	Intron
89700	G	A	Intron
90002	G	A	Intron
90615	A	G	Intron
92506	A	G	Intron
92558	T	C	Intron
92667	G	A	Intron
92803	A	T	Intron
95079	T	A	Intron
95089	G	A	Intron
96495	G	A	Intron
97070	T	A	Intron
99913	A	C	Intron
102375	C	T	Intron
102686	-	A	Intron
102687	A	C	Intron
102939	C	T	Intron
106162	G	T	Intron

FIGURE 3YY

106378	T	G	Intron
107310	C	T	Intron
108663	C	A	Intron
108876	A	T	Intron
110733	C	G	Intron
111546	A	G	Intron
116728	T	C	Intron
118403	G	T	Intron
118491	C	G	Intron
118888	A	G	Intron
125444	-	A T	Intron
125810	T	C	Intron
126092	T	C	Intron
127506	G	A	Intron
127878	G	T	Intron
139738	T	C	Intron
140261	C	T	Intron
141590	T	G	Intron
142613	C	T	Intron
142774	C	A	Intron
143288	G	A	Intron
145610	A	C	Intron
148360	T	C	Beyond ORF(3')

Context:

DNA
Position

210	TCCCTCTCTCATACCATTTAATTGGTTGCTTCCTAATTAATGACTCTCTTTGCTCTCTAT TTAATGATTCTTGCTAAAGTCCATAAGGCACCTTTGCCAGCAGTTGGTTTTTAGTATGAAA AGTAGCATTTCTTAATGAGTCTGAGTCTGCCTTCCAAATGAAGGGTTTACTTACATTTT CCTAATGGGAAAACGAGCTTTTCTTCTAC [G,A] CTTCCTTAGGGGTTTCATAAGTTCTTTTTCAATAACTCATCCTTAACACTTTCTCCAATT CTGCCTGTAATCAATATTCCCTTCACATGTAAAGAGCTCAGGAGGAAATCAACTATTTTT TTAAAAATACGCAATAAGGAAATTCTGCTACTCTTAGAAATAGCAGGAGCTAACATTTCAT TCTTTGCATATCATGTGCTAGGCATTGTGCCAATTACCTTATATACATTGTCTCATTATA TGTATCCATGACCATATATGTGCTAAGCATGAAATTTTCTTAAGCCAGATAGCTGAGTAG
332	CCTAATTAATGACTCTCTTTGCTCTCTATTTAATGATTCTTGCTAAAGTCCATAAGGCAC TTTGCCAGCAGTTGGTTTTTAGTATGAAAAGTAGCATTTCTTAATGAGTCTGAGTCTGC CTTCCAAATGAAGGGTTTACTTACATTTTCCTAATGGGAAAACGAGCTTTTCTTCTACGC TTCCTTAGGGGTTTCATAAGTTCTTTTTCAATAACTCATCCTTAACACTTTCTCCAATTC TGCCTGTAATCAATATTCCCTTCACATGTAAAGAGCTCAGGAGGAAATCAACTATTTTTT [T,A] AAAAATACGCAATAAGGAAATTCTGCTACTCTTAGAAATAGCAGGAGCTAACATTCATTC TTTGCATATCATGTGCTAGGCATTGTGCCAATTACCTTATATACATTGTCTCATTATATG TATCCATGACCATATATGTGCTAAGCATGAAATTTTCTTAAGCCAGATAGCTGAGTAGAA TTTTAAAATATTATTTTGTACAAAATCTAGACCTTTACCCCATTTGGGGGATAGATCTGA AGATCTGGGCTCATGTTTCCATGTGGTGACAATCTGTTTGATCTGAGCACAATTACTTTA
1131	AGGACTGGAACACAGGATGCTGCCTCTCTTTACCATTATGTTTTAAAGTGGAGCAAAGCC GTAGTTTTTCAGGATCTTTTCTTGTTACACATATCATTTAATTTGAGCCTCAGAGCGGCT AACAGTTTTGAGCACTTATGCTATGAAAATGTTTTGTGTATTCAGTTAAATGTATGCATA TCATACATTTATGTAACCTCAATACATATATATAAATGTGATATAACATACGTATGATATA ACAGAGTTATATATATGTGTATTATTTAACTTAATATATAATGAGTTAAGTGTATGCATA [T,A] CATAGATTTATGTAACCTCAATATATAAAGAGTTATATAATACAACAGAGTTGATATATAT ATAAATGTTGTATATAAACATAATATACGTTAATATATATTAACAAAGAGTTGTATAA TACAACACAGAGTTAATAATATATAAATACAACACAAAGAGTTATATATGTGTGTATTAT ACATTTAACTTAATATATAATGAGTTAAATGTATGTCTGTCCCATTTCAACTCTCCATTGA

FIGURE 3ZZ

GGAAAGTACCATTATCTTCCCCAAGTTCAGAAGAAGAAAACAGAGAAATATATTGAAATT

1221 ATATCATTTTAATTTGAGCCTCAGAGCGGCTAACAGTTTTGAGCACTTATGCTATGAAAAT
GTTTTGTGTATT CAGTTAAATGTATGCATATCATACTTTATGTAACCTCAATACATATAT
ATAAATGTGATATAACATACGTATGATATAACAGAGTTATATATATGTGTATTATTTAAC
TTAATATATAATGAGTTAAGTGTATGCATATCATAGATTTTATGTAACCTCAATATATAAAG
AGTTATATAATAACAACAGAGTTGATATATATATAAATGTTGTATATAAACATAATATATA
[C,T]
GTTAATATATATTAACAAAGAGTTGTATAATACAACACAGAGTTAATAATATATAAATAC
AACACAAAGAGTTATATATGTGTGTATTATACATTTAACTTAATATATAATGAGTTAAAT
GTATGTCTGTCCCATTTCAACTCTCCATTGAGGAAAGTACCATTATCTTCCCCAAGTTCAG
AAGAAGAAAACAGAGAAATATATTGAAATTCAGCAATTTGCTGGTGTGGTCAAGTCCAAC
CCAGAACTTGCTTCTTTTACATTGTAGTACCCTCCAGGGTATGCAGAAACAGATAGCTAG

2011 TAGGTCTGCTATTGATGAGCCATGCAGTGTTTTCTCCTGTTGCTTGATGTTTTTATTCTG
AAATCATGGTTGGTTTTCAAACACAAAAGTTTTCACTACAGTGATACAGATGAGGTTTAT
GTTTCCGCCACAGTCTATACTCAGGGTGCCTAGAGTATAGCATATTATTAGGGTACTATT
TCTTTTCTATCCTAGATATCCAATAAGGCTTCGGGACATGTTTTGAGCGAAGATGGGT
GTTTCTGCCCCGATAGTATAAATCGAGGATCCAGGTCTGGGCAGATTCAACCATGGGAGC
[G,C]
AACACTTCAAGAAAACCACCAGTGTTTGATGAAAATGAAGATGGTAAGAAATATGGGATA
GTGGCATATAAAAAATAGAATTTTGCAAAATTCAGTATATGCTTCTAGTTTCATAAGTT
AAGCATAAGCATGGTCTGTAGGGCCTTGAAGGAAAAAGGCAAAGCTGCATGAGTGAGTCT
GAGGACTTTGTAGGCTCATAGCTAGGTTTTACCTTCCACTTTCCATGGGACCTTTGGCAG
CTTTCCTAATCTCCACTATACCAATGTCCTTTGTCCAAAGGGAGCTGCAGTTGGGCATGT

4309 GAAAACTTTTTTTTCATGGCTATTGTGATTGCCTTGCTTTAACTTATCAAATAGTAAAAG
CAAAGATCTAGAGACTAGTGATATTACTTAATTTTTCTGTCTCTAAAATGGAAAGACAAA
TAGGCTTGCTTTTCATTTAGTTGGTTTCCTCTGCTTCTCTGGACTCAGAGCTAATGTTG
TACATGAGGCTGGTCGT CAGAGAATAGGGTGGAAGAGAGGCCAGCTGCATACTTTTAA
CTTGCTGGGCTACATTTGAAGGTAGTAGAATAGCATTATGATGAGAAAACACAGAAATGC
[A,C]
TAACTCTTCCTTGATTCAGCCAGGCTTTGTTCTTGCGGGATGCCCAAGAAAGCTACATAA
CCAAAGAATTGTGACAATTGGGAAATAAGATACCCCTTTTAGTTACTTTAAAGGACTCT
AGAAAACTAGGTTGAAGGAGAGTTAGGCTTAGGGACCAGACAGGTCTTTCTTAACACCC
TCTAGGTCACCACCTTTTCTGTTGTCTGGCTTCTCAGCCCAATGAGATGAACCCACTGCA
GCACCCATAAAGGAAAGATCTGAGCATAGCAACAAGTCTGTGCCTCCCAAAGGTGCTAGG

4345 CTTTAACTTATCAAATAGTAAAAGCAAAGATCTAGAGACTAGTGATATTACTTAATTTTT
CTGTCTCTAAAATGGAAAGACAAATAGGCTTGCTTTTCATTTAGTTGGTTTCCTCTGCTT
CCTCTGGACTCAGAGCTAATGTTGTACATGAGGCTGGTCGT CAGAGAATAGGGTGGAAGAA
GAGAGGCCAGCTGCATACTTTTAACTTGCTGGGCTACATTTGAAGGTAGTAGAATAGCAT
TATGATGAGAAAACACAGAAATGCATAACTCTTCCTTGATT CAGCCAGGCTTTGTTCTTG
[C,T]
GGGATGCCCAAGAAAGCTACATAACCAAAGAATTGTGACAATTGGGAAATAAGATACCCC
TTTTTAGTTACTTTAAAGGACTCTAGAAAACTAGGTTGAAGGAGAGTTAGGCTTAGGGA
CCAGACAGGTCTTTCTTAACACCCCTCTAGGTCACCACCTTTTCTGTTGTCTGGCTTCTCA
GCCCAATGAGATGAACCCACTGCAGCACCCATAAAGGAAAGATCTGAGCATAGCAACAAG
TCTGTGCCTCCCAAAGGTGCTAGGCTCTCTGTCTGTTTATGCAGACAGTTGCAAGGCAAA

4651 GCCCAAGAAAGCTACATAACCAAAGAATTGTGACAATTGGGAAATAAGATACCCCTTTTT
AGTTACTTTAAAGGACTCTAGAAAACTAGGTTGAAGGAGAGTTAGGCTTAGGGACCAGA
CAGGTCTTTCTTAACACCCCTCTAGGTCACCACCTTTTCTGTTGTCTGGCTTCTCAGCCCA
ATGAGATGAACCCACTGCAGCACCCATAAAGGAAAGATCTGAGCATAGCAACAAGTCTGT
GCCTCCCAAAGGTGCTAGGCTCTCTGTCTGTTTATGCAGACAGTTGCAAGGCAAAGGAAG
[T,C]
AGGAGGGCAAGTCCACCTACTATAAACCTGTCACTCTCTAGACATGAAGAATAGAGGAGG
AAACAAGTTGGTCCTTGCTCTGTCAATTGTGAACCCCATGTTCTGATGATGGAAGGCTGAC
AATAAAAAGGTAAATAATACATAAACAGATAATTTACAGTGCCTTAAAGTGCCACCAA
GGAAATGACTCCTAGTGATCTTACAGACAGTGACAGTGATGGTGAGGAGGCCACTTTAGA
TAGGGTGGCTGCGGTTGTCTTTCTAAGGAGGTGACATTTGGGCTGAAGCCTGAAAGATGA

FIGURE 3AAA

5037 TTGTGAACCCCATGTTCTGATGATGGAAGGCTGACAATAAAAAGGTAAATAATACATAAA
CCAGATAATTTACAGTGCCTTAAAGTGCCACCAAGGAAATGACTCCTAGTGATCTTACA
GACAGTGACAGTGATGGTGAGGAGGCCACTTTAGATAGGGTGGCTGCGGTTGTCTTTCTA
AGGAGGTGACATTTGGGCTGAAGCCTGAAAGATGAGAAGAAGCCATCTATGAAATGACAT
GAAAAGAATAGTTCAAGAACAGGAAAAACAAGTCCAAAATCCAAATAATGACAAAATCAG
[A,G]
ATTGAATAGTTGCCTATATCTTAACGTTCTCTCATGAGCACTAGTTTGCCAAAGAGACTG
CATTTATTGCCATGTAACTTATTTCTTCAAAAGATGATTGATTTGAGGAGAAAAAGTAT
GCCATTCTAGGGAATTTACTTTGCTTTAAAATTGAGTACATTTTGTAAGTTTCAATTTGAC
TCTTCACATAAATCTGGATTGAGCACAAGGTAAAATTGTATCTGATTGCTGTGAAGCTCC
TGACCAAGAAAAAGCAACCAAAAAGCACTGATTAACCAACAACATTAATGCTTATGTCA

5126 CACCAAGGAAATGACTCCTAGTGATCTTACAGACAGTGACAGTGATGGTGAGGAGGCCAC
TTTAGATAGGGTGGCTGCGGTTGTCTTTCTAAGGAGGTGACATTTGGGCTGAAGCCTGAA
AGATGAGAAGAAGCCATCTATGAAATGACATGAAAAGAATAGTTCAAGAACAGGAAAAAC
AAGTCCAAAATCCAAATAATGACAAAATCAGGATTGAATAGTTGCCTATATCTTAACGTT
CTCTCATGAGCACTAGTTTGCCAAAGAGACTGCATTTATTGCCATGTAACTTATTTCTT
[C,T]
AAAAGATGATTGATTTGAGGAGAAAAAGTATGCCATTCTAGGGAATTTACTTTGCTTTAA
AATTCAGTACATTTTGTAAGTTTCAATTTGACTCTTCACATAAATCTGGATTGAGCACAAG
GTAAAATTGTATCTGATTGCTGTGAAGCTCCTGACCAAGAAAAAGCAACCAAAAAGCACT
GATTAACCAACAACATTAATGCTTATGTCAATTTTGTATCCATATTTTATATACATA
ATCATAATGTATAATCAAACCTGGGCCAGTATCAAGGGCACTAAAATGAGCCAACTTAATT

6048 ATCTGATCTTGAACACATAATTTTATTAGTTACTTATGTTGATCTTTATTCAGCAAAAAC
AAAGTAGGAGATTTTCAGGCTAGGCATGGTTGCTTACGCCTGTAATCCCAGCACTTCAGG
AGGCCGAGGCGGGCAGATCACGAGGTCAAGAGATCGAAACCATCCTGGCCAAACATGGTGA
AACCCCATCTCTACTAAAAAATACAAAAAAATTAGCTGGGCATGCCAGTGTGCGCCTGT
AGTCCCAGCTATTGAGGAGGCTGAGGCAGGAGAATCTCTTGAACCTGGGAGGTGAAGTTT
[G,T]
CAGTGAGCTGAGATTGCTCCACTGCACTCCAGCCTGGCAACAGAGCAAGACTCTGTCCAA
AAAAAACGGCTTGCTTATTTGATTATATAAGATATCTTTCATAAATTAGATCTCAAATT
ATACTATTGTTTTGCAGTTTTAGCTTTTATGTTTTAGGGCAAATCTTAAGTCCTAATTAC
TTTTTTTTTATTATTGTGGTAAAATGTATATAACAAAATGTACCATTTAATCATTTTAGA
ATATACGGTTTATGACATTAAGCACATTCACGTTATCATGCAACCATCACCCTACCCAT

6229 ACCCCATCTCTACTAAAAAATACAAAAAAATTAGCTGGGCATGCCAGTGTGCGCCTGTA
GTCCCAGCTATTGAGGAGGCTGAGGCAGGAGAATCTCTTGAACCTGGGAGGTGAAGTTTG
CAGTGAGCTGAGATTGCTCCACTGCACTCCAGCCTGGCAACAGAGCAAGACTCTGTCCAA
AAAAAACGGCTTGCTTATTTGATTATATAAGATATCTTTCATAAATTAGATCTCAAATT
ATACTATTGTTTTGCAGTTTTAGCTTTTATGTTTTAGGGCAAATCTTAAGTCCTAATTAC
[-,T]
TTTTTTTTTATTATTGTGGTAAAATGTATATAACAAAATGTACCATTTAATCATTTTAGAA
TATACGGTTTATGACATTAAGCACATTCACGTTATCATGCAACCATCACCCTACCCATC
CTCAGAACATTTCTCTTCTCGAATTGAACTTGGTACCTCTGAAACAATAACATCCACAT
TCCATCCCCTCCCAGTCCCTGTAAACAACCATTTGACTTTATGTCTCTATGAATTTAA
CTACTCTATGTACCTCATATAAATGGAACATATAAGATTTGTTCTTTTGCATCTGGTTTA

6328 GAACCTGGGAGGTGAAGTTTGCAGTGAGCTGAGATTGCTCCACTGCACTCCAGCCTGGCA
ACAGAGCAAGACTCTGTCCAAAAAAAACGGCTTGCTTATTTGATTATATAAGATATCTT
TCATAAATTAGATCTCAAATTATACTATTGTTTTGCAGTTTTAGCTTTTATGTTTTAGGG
CAAATCTTAAGTCCTAATTACTTTTTTTTTTATTATTGTGGTAAAATGTATATAACAAAAT
GTACCATTTAATCATTTTAGAATATACGTTTATGACATTAAGCACATTCACGTTATCAT
[G,A]
CAACCATCACCCTACCCATCCTCAGAACATTTCTCTTCTCGAATTGAACTTGGTACCT
CTGAAACAATAACATCCACATTCATCCCCTCCCAGTCCCTGTAAACAACCATTTGAC
TTTATGTCTCTATGAATTTAACTACTCTATGTACCTCATATAAATGGAACATATAAGATT
TGTTCTTTTGCATCTGGTTTATTTCAATTTAGCATATATTTTAAAGTTTCATCCATGTTGC
AGCATGTGTCAAGATTCTCTTTCTTTTAAAGTCTGAGTCGTATTCCATTGTATGGATATA

6350 AGTGAGCTGAGATTGCTCCACTGCACTCCAGCCTGGCAACAGAGCAAGACTCTGTCCAAA
AAAAACGGCTTGCTTATTTGATTATATAAGATATCTTTCATAAATTAGATCTCAAATTA

FIGURE 3BBB

TACTATTGTTTTGCAGTTTTAGCTTTTATGTTTTAGGGCAAATCTTAAGTCCTAATTACT
TTTTTTTTATTATTGTGGTAAAATGTATATAACAAAATGTACCATTTAATCATTTTAGAA
TATACGGTTTATGACATTAAGCACATTCACGTTATCATGCAACCATCACCACTACCCATC
[C,T]
TCAGAACATTTCTCTTCTCGAATTGAACTTGGTACCTCTGAAACAATAACATCCACATT
CCATCCCCTCCCCAGTCCCTGTTAAACAACCATTTGACTTTATGTCTCTATGAATTTAAC
TACTCTATGTACCTCATATAAATGGAACATATAAGATTTGTTCTTTTGCATCTGGTTTAT
TTCATTTAGCATATATTTTTAAGGTTTCATCCATGTTGCAGCATGTGTCAAGATTCTCTTT
CTTTTAAAGTCTGAGTCGTATTCCATTGTATGGATATACCACATTTTGTTTATCTTTTCA

6382 CTGGCAACAGAGCAAGACTCTGTCCAAAAAACGGCTTGCTTATTTGATTATATAAGA
TATCTTTCATAAATTAGATCTCAAATTATACTATTGTTTTGCAGTTTTAGCTTTTATGTT
TTAGGGCAAATCTTAAGTCCTAATTACTTTTTTTTTATTATTGTGGTAAAATGTATATAA
CAAAATGTACCATTTAATCATTTTAGAATATACGGTTTATGACATTAAGCACATTCACGT
TATCATGCAACCATCACCACTACCCATCCTCAGAACATTTCTCTTCTCGAATTGAACTT
[G,T]
GTACCTCTGAAACAATAACATCCACATTCCATCCCCTCCCCAGTCCCTGTTAAACAACCA
TTTGACTTTATGTCTCTATGAATTTAACTACTCTATGTACCTCATATAAATGGAACATAT
AAGATTTGTTCTTTTGCATCTGGTTTATTTCAATTTAGCATATATTTTAAAGGTTTATCCA
TGTTGCAGCATGTGTCAAGATTCTCTTTCTTTTAAAGTCTGAGTCGTATTCCATTGTATG
GATATACCACATTTTGTTTATCTTTTCATTAGTTGACATTGATTGTCCTCACCTTTTGAT

6434 ATATAAGATATCTTTCATAAATTAGATCTCAAATTATACTATTGTTTTGCAGTTTTAGCT
TTTATGTTTTAGGGCAAATCTTAAGTCCTAATTACTTTTTTTTTATTATTGTGGTAAAAT
GTATATAACAAAATGTACCATTTAATCATTTTAGAATATACGGTTTATGACATTAAGCAC
ATTCACGTTATCATGCAACCATCACCACTACCCATCCTCAGAACATTTCTCTTCTCGAAT
TGAAACTTGGTACCTCTGAAACAATAACATCCACATTCCATCCCCTCCCCAGTCCCTGTT
[A,-]
AACCAACATTTGACTTTATGTCTCTATGAATTTAACTACTCTATGTACCTCATATAAATG
GAACATATAAGATTTGTTCTTTTGCATCTGGTTTATTTCAATTTAGCATATATTTTAAAGG
TTCATCCATGTTGCAGCATGTGTCAAGATTCTCTTTCTTTTAAAGTCTGAGTCGTATTCC
ATTGTATGGATATACCACATTTTGTTTATCTTTTCATTAGTTGACATTGATTGTCCTCAC
CTTTTGATTTTTGTGAATAAGGCTGCTATAAACATTGGTGTGCAAATATCTGTTCAAGTC

6722 CCAGTCCCTGTTAAACAACCATTTGACTTTATGTCTCTATGAATTTAACTACTCTATGTA
CCTCATATAAATGGAACATATAAGATTTGTTCTTTTGCATCTGGTTTATTTCAATTTAGCA
TATATTTTTAAGGTTTATCCATGTTGCAGCATGTGTCAAGATTCTCTTTCTTTTAAAGTC
TGAGTCGTATTCCATTGTATGGATATACCACATTTTGTTTATCTTTTCATTAGTTGACAT
TGATTGTCCTCACCTTTTGATTTTTGTGAATAAGGCTGCTATAAACATTGGTGTGCAAAT
[A,G]
TCTGTTCAAGTCCCTGTTTTCAATTCTTCAGGGTATATACCTAGAAAGTGGAAGCACTGGA
TCATATAATTCTTGTTTGACTCTCTGAGGAACCATCATACTGTCTTCTACCTAATTATG
CTTTGTGTTTTAGTAATGGGACACAGCCTGGCATGATGGGCTAGAGTATTGGAAAGGCAT
GCACAGGTTCAAGTCTCAGCTGTGCCACGTGCCAGTAATCTACATGTTTCTATGAGAAGA
GTCAAAGAGGATATAGCCTGGTCAACCATTATCAGACACTGGAGTCAGTTTGACTAATTA

6751 TATGTCTCTATGAATTTAACTACTCTATGTACCTCATATAAATGGAACATATAAGATTTG
TTCTTTTGCATCTGGTTTATTTCAATTTAGCATATATTTTAAAGGTTTATCCATGTTGCAG
CATGTGTCAAGATTCTCTTTCTTTTAAAGTCTGAGTCGTATTCCATTGTATGGATATACC
ACATTTTGTTTATCTTTTCATTAGTTGACATTGATTGTCCTCACCTTTTGATTTTTGTGA
ATAAGGCTGCTATAAACATTGGTGTGCAAATATCTGTTCAAGTCCCTGTTTTCAATTCTT
[C,T]
AGGGTATATACCTAGAAAGTGGAAGCACTGGATCATATAAATCCTTGTTTGACTCTCTGAG
GAACCATCATACTGTCTTCTACCTAATTATGCTTTGTGTTTATAGTAATGGGACACAGCCT
GGCATGATGGGCTAGAGTATTGGAAAGGCATGCACAGGTTCAAGTCTCAGCTGTGCCACG
TGCCAGTAATCTACATGTTTCTATGAGAAGAGTCAAAGAGGATATAGCCTGGTCAACCAT
TATCAGACACTGGAGTCAGTTTGACTAATTATATGGTGTCTAAGGAACTTGAGGTACC

6752 ATGTCTCTATGAATTTAACTACTCTATGTACCTCATATAAATGGAACATATAAGATTTGT
TCTTTTGCATCTGGTTTATTTCAATTTAGCATATATTTTAAAGGTTTATCCATGTTGCAGC
ATGTGTCAAGATTCTCTTTCTTTTAAAGTCTGAGTCGTATTCCATTGTATGGATATACCA
CATTTTGTTTATCTTTTCATTAGTTGACATTGATTGTCCTCACCTTTTGATTTTTGTGAA

FIGURE 3CCC

TAAGGCTGCTATAAACATTGGTGTGCAAATATCTGTTCAAGTCCCTGTTTTCAATTCTTC
[A,T]
GGGTATATACCTAGAAGTGGAAGCACTGGATCATATAATTCCTTGTTTGACTCTCTGAGG
AACCATCATACTGTCTTCTACCTAATTATGCTTTGTGTTTTAGTAATGGGACACAGCCTG
GCATGATGGGCTAGAGTATTGGAAAGGCATGCACAGGTTCAAGTCTCAGCTGTGCCACGT
GCCAGTAATCTACATGTTTCTATGAGAAGAGTCAAAGAGGATATAGCCTGGTCAACCATT
ATCAGACACTGGAGTCAGTTTGACTAATTATATGGTGTCTAAGGAACTTGAGGTACCA

7070 TGGGAAGCACTGGATCATATAATTCCTTGTTTGACTCTCTGAGGAACCATCATACTGTCTT
CTACCTAATTATGCTTTGTGTTTTAGTAATGGGACACAGCCTGGCATGATGGGCTAGAGT
ATTGGAAAGGCATGCACAGGTTCAAGTCTCAGCTGTGCCACGTGCCAGTAATCTACATGT
TTCTATGAGAAGAGTCAAAGAGGATATAGCCTGGTCAACCATTATCAGACACTGGAGTCA
GTTTGACTAATTATATGGTGTCTAAGGAACTTGAGGTACCACAAGAAAAGTCTCCAAA
[T,C]
CTAAATAATTACTAATGAATTAATTGAGGGGGAACTTATTTAACCTTTGTAAGCCTCAG
TTTCTTTGTATGTAAAATGCAGGTAATAATTGGGCATACTTCATTAGGTCTTTGTGAGGA
TTGAATAAATAATGCAAGTAAAACACTTAGCAAAGTATTTCCATAAAAGTAACCACTCAA
TTAATGCTAATTAAGTGTTATTTACTAACATCAGAGTTTCCTAGTGTGAACTCTTTGAAG
TACTTTAAGTTCTGAGAAAAACAAAATTAATTAATGCAACTCTGTCGATTCCACAGTTA

7306 GTCAGTTTGACTAATTATATGGTGTCTAAGGAACTTGAGGTACCACAAGAAAAGTCTC
CAAATCTAAATAATTACTAATGAATTAATTGAGGGGGAACTTATTTAACCTTTGTAAGC
CTCAGTTTCTTTGTATGTAAAATGCAGGTAATAATTGGGCATACTTCATTAGGTCTTTGT
GAGGATTGAATAAATAATGCAAGTAAAACACTTAGCAAAGTATTTCCATAAAAGTAACCA
CTCAATTAATGCTAATTAAGTGTTATTTACTAACATCAGAGTTTCCTAGTGTGAACTCTT
[T,C]
GAAGTACTTTAAGTTCTGAGAAAAACAAAATTAATTAATGCAACTCTGTCGATTCCACA
GTTAATTAGACCTATTCATGTTTCTATTGACTGGATTAACAGAACGGCAGATTTTATGGA
TTCTGTTAAACCTATATAAAAACACTTTAAAGAAGCCAAGTTATTGACTGCACAAAAA
CATAATCTCATCTGATATCTTTTTTATCCCCCTGAGGTTATTGTGTTTTTGTTTAAGGCA
AAATCAAGAACTAATTGGGATGAAAATAACTAAAGTTTACTTTGTCTGATTTAAGTCCCA

7339 AACTTGAGGTACCACAAGAAAAGTCTCCAAATCTAAATAATTACTAATGAATTAATTGAG
GGGAACTTATTTAACCTTTGTAAGCCTCAGTTTCTTTGTATGTAAAATGCAGGTAATA
ATTGGGCATACTTCATTAGGTCTTTGTGAGGATTGAATAAATAATGCAAGTAAAACACTT
AGCAAAGTATTTCCATAAAAGTAACCACTCAATTAATGCTAATTAAGTGTTATTTACTAA
CATCAGAGTTTCCTAGTGTGAACTCTTTGAAGTACTTTAAGTTCTGAGAAAAACAAAATT
[A,G]
ATTAAATGCAACTCTGTCGATTCCACAGTTAATTAGACCTATTCATGTTTCTATTGACTG
GATTAACAGAACGGCAGATTTTATGGATTCTGTTAAACCTATATAAAAACACTTTAAAA
GAAGCCAAGTTATTGACTGCACAAAAACATAATCTCATCTGATATCTTTTTTATCCCCCT
GAGGTTATTGTGTTTTTGTTTAAGGCAAAATCAAGAACTAATTGGGATGAAAATAACTAA
AGTTTACTTTGTCTGATTTAAGTCCCAACTGACTAATAAGTAATCCCATTTGATCAACA

7531 CCCATAAAGTAACCACTCAATTAATGCTAATTAAGTGTTATTTACTAACATCAGAGTTTC
CTAGTGTGAACTCTTTGAAGTACTTTAAGTTCTGAGAAAAACAAAATTAATTAATGCAA
CTCTGTCGATTCCACAGTTAATTAGACCTATTCATGTTTCTATTGACTGGATTAACAGAA
CGGCAGATTTTATGGATTCTGTTAAACCTATATAAAAACACTTTAAAGAAGCCAAGTT
ATTGACTGCACAAAAACATAATCTCATCTGATATCTTTTTTATCCCCCTGAGGTTATTGT
[G,A]
TTTTTGTTTAAGGCAAAATCAAGAACTAATTGGGATGAAAATAACTAAAGTTTACTTTGT
CTGATTTAAGTCCCAACTGACTAATAAGTAATCCCATTTGATCAACAGATTCAGTGAAA
ACTGTCCCCATTCTCAACTACCATATGGATATTCTGAGAAATAATTAATGATGCAGAAA
AACATTTTTTGTCTTCTGAAATAAAAGAATAGACGTGCAAGTGACACTTCTTTTTAATGC
TTACAACCTTTTTTAAAAATCTACTTTATTTTCTCTATCTGAATGCACTAGATTTTGT

8902 AAGTCCAATTTATGGCAAGGGTTTTAATTTGTAAGGGCTTTATTTCTCCATACAAAGGGA
TTGGAGAAACAACTAGAAAGCCAGAAAACAGACCACAAACACTGAGCTAGTGGTTCCAA
CTGGAGTGTTCCCTGAGCAGTGACTTATGAATACTTGTTTAGAAGAATCAACTCAAACAA
ATTTAGGAAAGTCACATCCTGCCTTTAGAGCTTCCAGTGTTTGTAGCATATTAAAGTCT
CTGAAATGACCTACAATATTGAAATCTCAGTCTTCTGCTATTTTTAATATTTATTTCAA
[A,G]

FIGURE 3DDD

TGAAATAATTTTTGTGAAAAACATTTTAATGTCTGTGGCTCATAATATTCTGTGGATCTC
AGTTTGGGAAATGAAAGATTATAATCGTATCTACTCTTTATCTGTTGGAAACATCTTTCC
ATTTATTTTTCTGCTGGTTTAATGGCAACAAATTTTACATGTGAAATATTTGTAATGT
GATTTATATGAAAAAATGTAATTTTCTTATTACACGATCAAAAGTGGTTATGCTCCTCTG
TAAGTTTTTCTTACAAGTTTTTATGTTGCATAATTTATATCTATTTGGTTTAATGAGTA

9471 GCATAATTTATATCTATTTGGTTTAATGAGTACAACACAAGATAGCTCAGTTTAATTCTG
GGATGTTGGATGTTTCTAGTTAAAGTACAAGTTGGATTTGATGAAAATTCATTGCTTCTT
TATGATTTTTTAAACTCAAGAACATGTTAGTTAAAGAGTGTCTTCTGAACAAATTCCTG
TGAAGTAGTTGCTGATTATTAAGTAACACTCATGCTACCGTAACTTTTTATACTATCCAA
AGCTATAGACATTTTTAATTTTCAACTTGCAACTACCTAGGTTGAAAAATTAAATCTGCA
[G,A]
GCCAGTTTCATTATTCAGACAATTTGGTTATCACTTCAAGCCTACTATCTTCAAAGAAAA
TGGGAGTGCAGGCCTTCATGGGAGCTGACTTCTGCTGTATGGCCTTGCAAATGTCAACTC
GATTAGAGTGACCAGTGTTAGCCCTCAATTCACAACTCAGGTCCCATGAAATATACACG
GATTTCTACTATGCATTACTATGTGACCATTATGGAAGTTTCGTTTGGAAACACAGACA
TTAAAAAGCCAGTCATGGAATAACATTCTTGTTAAAACAGGACATTGGCAAAAAGGACTA

10023 GTCATGGAATAACATTCTTGTTAAAACAGGACATTGGCAAAAAGGACTAGAAAACCTTCTG
GCTATAGATTTTGAATCCAATAGCCTTG CATAGGCTTTTCTGTTTCCTCCTAAACTATGT
CTTCTGTCCTTTCTGGAGGCATATTTATAGTAAAATAAACAAATTAACCTTGTTTTACA
CTTGAGTAACCTATACCTTTGGTTATTTACGAGAATTACTTAAAGCAGAGTTGGCAACTT
TTTCTGTGATGGGCCTGATACTAAATATTTTACACTTTCCAAGTAATACAGTCTCTGTCA
[C,T]
AACTACTCAACTCTGCCACTGTAGCATAAAAGCACACTTAGACAATGCAGAAACAAATGA
ACATGGCTTTGTTCCAATAAACTTTATTTATGGACACTGAAATGTGAATTTCAAAAATA
TTTTTTGCATAAGATCAAATATTATTCTTTTGATTTTTTCCAATCAATAAAAAGTGTA
AAATTGGCCGGGCATGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGG
GCAGATCACCTGAGGTCACGAGTTCGAGACCAGCCTGACCAACATGGAGAAACCCTGTCT

10594 CAGCCTGACCAACATGGAGAAACCCTGTCTATATTAATAACAAATTAGCTGGGTGTG
GTGGGGCCTACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAATG
CAGGAGGCAGAGGTTGCGGTGAGCCCAGATTGCACCATTGCACTCCAGCCGGGGCAACAA
GAGCAAACTCCGTCTCAAAAAAAAAAAAAAAAAAAGTGTA AAAACCATTTCTTAGTTCA
TGAGCTATACAAAATAGATAGTGAGTTAGATTTGGCCCATGGGGCTTATTTTGCTGACT
[C,G]
CTGCTCTAAGCATCTTGCAGACATTTCTTCATATGCCCTAGGAGATTTCTGATATCCCCT
CATAATACCCTGGCCTTACACCAAGACTACAATCTGTTCTTTGCAGATGCTTAATAAATT
CATTCTTCCCTGTCATTGAGTTGATCTGTGTGAGCCAGTGGAAATACTTGGGCCAATAAA
TCTAGTGTGTTTGAGGGTAAAATATGCTATTTTTGTAAGATATATTATTTAATGGCCACA
CAACCTAAATTCAATTAATGGTTACAACCTGTAACGCATTTAAAATATGACTAGGCAGA

11233 CATCCAACAGTTGATGTTGATCCCCCATCCTGCCCCACTGTTCTACTTTGCAATTTGTT
TGAAAGAAATTGTCAATATATTTCTGACTTCTGAGCAAATCCATGAATCGGGATCCAGCA
ACAGGAAAAGAAGCTGTTGCTGCCCATGCTTGGTTTTGGCACCAGGAATGGATAAATCC
CAGACTTCCTGGGGCACGTGTTTTATAAAAGGGAAGTGCTGACAGTGCAAACAGCTGCCA
TCAATTGGCCTTGGAGACTACTTCCCTGGAGAAGCTCCAATTATATTCTTAAAGGACCCA
[C,T]
CAAGCTCTTCAAGTGTTAGTGGCAACCATTGCTGCCAACCATTGAAATGATGAAGTAA
TTTTTTTTTATTAGTGGATCCTAAGTGATAGGCTCTAGA ACTGATCTTCAACCTTA ACTA
ATATCATGGCATCAGAGGGCTACAGATTAAATCAGTGGTTCCAGTCACTCTCTGTGGAC
AAGTAGCAACTACGACAAAGCTTTTCTTAGTCTATGGTGGAGAGAAAAATTAGGACAAT
GTAATAAGCATCCCATAACTTATTAAACCTATTAAATTTAATTTAAGATTATGTCAT

11295 AAAGAAATTGTCAATATATTTCTGACTTCTGAGCAAATCCATGAATCGGGATCCAGCAAC
AGGAAAAGAAGCTGTTGCTGCCCATGCTTGGTTTTGGCACCAGGAATGGATAAATCCCA
GACTTCCTGGGGCACGTGTTTTATAAAAGGGAAGTGCTGACAGTGCAAACAGCTGCCATC
AATTGGCCTTGGAGACTACTTCCCTGGAGAAGCTCCAATTATATTCTTAAAGGACCCACC
AAGCTCTTCAAGTGTTAGTGGCAACCATTGCTGCCAACCATTGAAATGATGAAGTAAT
[- ,A,T]
TTTTTTTTTATTAGTGGATCCTAAGTGATAGGCTCTAGA ACTGATCTTCAACCTTA ACTAAT
ATCATGGCATCAGAGGGCTACAGATTAAATCAGTGGTTCCAGTCACTCTCTGTGGACAA

FIGURE 3EEE

GTAGCAACTACGACAAAGCTTTTCTTAGTCTATGGTGGAAGAGAAAAATTAGGACAATGT
AATAAGCATCCCATAACTTATTAAACCTATTTAAATTTTAAGATTATGTCATTT
TTTGTATGTGTGTATGCTTAGTATTTATGGATTGTGGAAATAGAATTTTTTTTTTATAGT

11534 CAAGCTCTTCAAGTGTTAGTGGCAACCATTGCTGCCAACCATTGAAATGATGAAGTAA
TTTTTTTTTATTAGTGGATCCTAAGTGATAGGCTCTAGAAGTCTTCAACCTTAACCTA
ATATCATGGCATCAGAGGGCTACAGATTAAATCAGTGGTCCCAGTCACTCTCTGTGGAC
AAGTAGCAACTACGACAAAGCTTTTCTTAGTCTATGGTGGAAGAGAAAAATTAGGACAAT
GTAATAAGCATCCCATAACTTATTAAACCTATTTAAATTTAAGATTATGTCAT
[-,T]
TTTTGTATGTGTGTATGCTTAGTATTTATGGATTGTGGAAATAGAATTTTTTTTTTATAG
TGAGAACCTAGGTAAGTGACTTACCTCTCTGATCCCCCATTTTCTCATATGTAGAAGGGG
GCTAATAATAGTATCTGTCTCATAGTTTTTGTGAGAATAAAAAAATTGTCCAGGTAAAAT
GCTTAGCTGGTGACTGGCACACAGTAATTGCTCAATAAATGTTAGCTATTATTGCTATCA
TTATATAATCATCATGGTTTCCAATGCCTTTACTTGGCAAATAAAAGAACAAAAGTCACC

11757 AGAAAAATTAGGACAATGTAATAAGCATCCCATAACTTATTAAACCTATTTAAATTTAA
TTTTAAGATTATGTCATTTTTTGTATGTGTGTATGCTTAGTATTTATGGATTGTGGAAAT
AGAATTTTTTTTTTATAGTGAGAACCTAGGTAAGTGACTTACCTCTCTGATCCCCCATTT
TCTCATATGTAGAAGGGGGCTAATAATAGTATCTGTCTCATAGTTTTTGTGAGAATAAAA
AAATTGTCCAGGTAAAATGCTTAGCTGGTGACTGGCACACAGTAATTGCTCAATAAATGT
[T,C]
AGCTATTATTGCTATCATTATATAATCATCATGGTTTCCAATGCCTTTACTTGGCAAATA
AAAGAACAAAAGTCACCCGATATTGATCTCCCTTTTCTTCCCTAGTTTTTCTGGGGGGTGG
GAGGCAGAGACCGAATTTTCTGATCTGTGAAATCTGAATTTATCATTGTAATTTTCCATA
AGTGCTATGTAGAGAACTCATTTAAGTTGCTGGGATGAAAAAAAATCAAAGTGGCCTAT
TGTGCTGGGTGCAGTGGTTCACGCCTGCAATCCCAGCACTTTGGGAGGCTGAGGGGGGTG

11951 GGGGGCTAATAATAGTATCTGTCTCATAGTTTTTGTGAGAATAAAAAAATTGTCCAGGTA
AAATGCTTAGCTGGTGACTGGCACACAGTAATTGCTCAATAAATGTTAGCTATTATTGCT
ATCATTATATAATCATCATGGTTTCCAATGCCTTTACTTGGCAAATAAAAGAACAAAAGT
CACCCGATATTGATCTCCCTTTTCTTCCCTAGTTTTCTGGGGGGTGGGAGGCAGAGACCG
AATTTTCTGATCTGTGAAATCTGAATTTATCATTGTAATTTTCCATAAGTGCTATGTAGA
[G,A]
AACTCATTTAAGTTGCTGGGATGAAAAAAAATCAAAGTGGCCTATTGTGCTGGGTGCAG
TGGTTCACGCCTGCAATCCCAGCACTTTGGGAGGCTGAGGGGGGTGGATCGCCTGAGGTC
AGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCTTGACTCTACTAAAAATACAAAA
ATTAGCCTGGCATGATGGTGGGCACCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGA
GAATCCCTTGAACCCAGGAGGTGGAGGATTCAGTGAGCCGAGATCTACTGCACTCCAGCC

12901 AGTGATTATGGGACAGCTAAATGATGGTGCCAAGTAGGAGCTGGAGTAGAGTATCCAGCA
ATGAGTGGAACATCTGGGATGGAGACAGAAAGACACGGGTATTAATTCTACGGGGATGG
CTAAGTCTGCTCTGAGAGACAGTGTGGAGACCAAGGAGAAGAGGAATCCTAATTTTAGA
AACAAGGCAGTGGATAGCAATCTAGCTATGGAAAGTGGAAGGAAAGAGATAGTTGATCAT
CCAGTTCAACACTACTCTTGTGTAGTTCACCTATGTTGAATGCTTCTGTGTGACTAAGT
[C,A]
GGTGAGAAAAATCTATGGGAGTAGGCAACATGGAGGATGTTGGTATTCACAAAAGCAGTT
TAGTGGAGTGTGGAGGCCTGAGCCAGACTAGAATGAGTTAGGAGTAGATGGAAGATAAGA
ATGCAGATATGGGCCAGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCA
AGGTGAGCAGATCACAAGGTGAGGAGATCGAGACCATCCTGGCTAACACCGTGAAACCCC
ATCTCTACTAAAAATACAAAAAATTAGCCGGGCCTGGTGGCGGGTGCCTGTAGTCCAGC

13040 CAGTGTGGAGACCAAGGAGAAGAGGAATCCTAATATTTAGAAACAAGGCAGTGGATAGCA
ATCTAGCTATGGAAGTGGAAGGAAAGAGATAGTTGATCATCCAGTTCAACACTACTCTT
GTTGTAGTTCACTTATGTTGAATGCTTCTGTGTGACTAAGTCGGTGAGAAAAATCTATGG
GAGTAGGCAACATGGAGGATGTTGGTATTCACAAAAGCAGTTTAGTGGAGTGTGGAGGCC
TGAGCCAGACTAGAATGAGTTAGGAGTAGATGGAAGATAAGAATGCAGATATGGGCCAG
[C,T]
GCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGTGAGCAGATCACAAGG
TCAGGAGATCGAGACCATCCTGGCTAACACCGTGAAACCCCATCTCTACTAAAAATACAA
AAAATTAGCCGGGCCTGGTGGCGGGTGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCA
GGAGAATGGCGTGAACCCGGGAGGTGGAGCTGGCAGTGAGCCGAGATGGTGCCACTGCAC

FIGURE 3FFF

TCCAGCCTGGGCAACAGAGCAAGACTCCATCTCAAAAAAAAAAAAAAAAAAAGAATGCAG

13081 AACAAAGGCAGTGGATAGCAATCTAGCTATGGAAAGTGGAAGGAAAGAGATAGTTGATCAT
CCAGTTCAACACTACTCTTGTGTAGTTCACTTATGTTGAATGCTTCTGTGTGACTAAGT
CGGTGAGAAAAATCTATGGGAGTAGGCAACATGGAGGATGTTGGTATTCACAAAAGCAGT
TTAGTGAGAGTGTGGAGGCCTGAGCCAGACTAGAATGAGTTAGGAGTAGATGGAAGATAAG
AATGCAGATATGGGCCAGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCC
[A, G]
AGGTGAGCAGATCACAAGGTCAGGAGATCGAGACCATCCTGGCTAACACCGTGAAACCCC
ATCTCTACTAAAAATACAAAAAATTAGCCGGGCCTGGTGGCGGGTGCCTGTAGTCCCAGC
TACTCGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCGGGAGGTGGAGCTGGCAGTGAGC
CGAGATGGTGCCACTGCACTCCAGCCTGGGCAACAGAGCAAGACTCCATCTCAAAAAAAA
AAAAAAAAAAAAAGAATGCAGATATGGCAAGTATAGACAAGCTTCAAGAAGTTTGGTCTAAA

13173 TATGTTGAATGCTTCTGTGTGACTAAGTCGGTGAGAAAAATCTATGGGAGTAGGCAACAT
GGAGGATGTTGGTATTCACAAAAGCAGTTTAGTGGAGTGTGGAGGCCTGAGCCAGACTAG
AATGAGTTAGGAGTAGATGGAAGATAAGAATGCAGATATGGGCCAGCGCGGTGGCTCAC
GCCTGTAATCCCAGCACTTTGGGAGGCCAAGGTGAGCAGATCACAAGGTCAGGAGATCGA
GACCATCCTGGCTAACACCGTGAAACCCCATCTCTACTAAAAATACAAAAAATTAGCCGG
[G, T]
CCTGGTGGCGGGTGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCGTG
AACCCGGGAGGTGGAGCTGGCAGTGAGCCGAGATGGTGCCACTGCACTCCAGCCTGGGCA
ACAGAGCAAGACTCCATCTCAAAAAAAAAAAAAAAAAAAGAATGCAGATATGGCAAGTAT
AGACAAGCTTCAAGAAGTTTGGTCTAAAAGGAAGCGGAGAAATAAACAAAGAGATGATGC
CTAATATAATTCAGCTAAATGTAATATAATGGATTTTTTTAAGATGAGGTACTAGAGCAT

13272 TGGAGGCCTGAGCCAGACTAGAATGAGTTAGGAGTAGATGGAAGATAAGAATGCAGATAT
GGGCCAGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGTGAGCAG
ATCACAAGGTCAGGAGATCGAGACCATCCTGGCTAACACCGTGAAACCCCATCTCTACTA
AAAATACAAAAAATTAGCCGGGCCTGGTGGCGGGTGCCTGTAGTCCCAGCTACTCGGGAG
GCTGAGGCAGGAGAATGGCGTGAACCCGGGAGGTGGAGCTGGCAGTGAGCCGAGATGGTG
[C, T]
CACTGCACTCCAGCCTGGGCAACAGAGCAAGACTCCATCTCAAAAAAAAAAAAAAAAAAAAA
GAATGCAGATATGGCAAGTATAGACAAGCTTCAAGAAGTTTGGTCTAAAAGGAAGCGGAG
AAATAACAAAGAGATGATGCCTAATATAATTCAGCTAAATGTAATATAATGGATTTTTTT
TAAGATGAGGTACTAGAGCATGTAATATAAATCTATTAAATTGGGTGGCCAGGAACCAGG
ACTGGCTCATCAGCATGGACCAGGCTAGACGCACAGGGCCTTATATCCAGAAGGACATCA

13333 GGCCCAGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGTGAGCAGA
TCACAAGGTCAGGAGATCGAGACCATCCTGGCTAACACCGTGAAACCCCATCTCTACTAA
AAATACAAAAAATTAGCCGGGCCTGGTGGCGGGTGCCTGTAGTCCCAGCTACTCGGGAGG
CTGAGGCAGGAGAATGGCGTGAACCCGGGAGGTGGAGCTGGCAGTGAGCCGAGATGGTGC
CACTGCACTCCAGCCTGGGCAACAGAGCAAGACTCCATCTCAAAAAAAAAAAAAAAAAAAAA
[A, -, G]
AATGCAGATATGGCAAGTATAGACAAGCTTCAAGAAGTTTGGTCTAAAAGGAAGCGGAGA
AATAACAAAGAGATGATGCCTAATATAATTCAGCTAAATGTAATATAATGGATTTTTTT
AAGATGAGGTACTAGAGCATGTAATATAAATCTATTAAATTGGGTGGCCAGGAACCAGGA
CTGGCTCATCAGCATGGACCAGGCTAGACGCACAGGGCCTTATATCCAGAAGGACATCAC
CTTTGGGTTTTAATGCTCTGCACTTGCTGTCTCAAATTCTAACTGTCTCTTAGGCTCTC

13485 GTGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCGGGAGG
TGGAGCTGGCAGTGAGCCGAGATGGTGCCACTGCACTCCAGCCTGGGCAACAGAGCAAGA
CTCCATCTCAAAAAAAAAAAAAAAAAAAGAATGCAGATATGGCAAGTATAGACAAGCTTC
AAGAAGTTTGGTCTAAAAGGAAGCGGAGAAATAACAAAGAGATGATGCCTAATATAATT
CAGCTAAATGTAATATAATGGATTTTTTTAAGATGAGGTACTAGAGCATGTAATATAAAT
[C, A]
TATTAAATTGGGTGGCCAGGAACCAGGACTGGCTCATCAGCATGGACCAGGCTAGACGCA
CAGGGCCTTATATCCAGAAGGACATCACCTTTGGGTTTTAATGCTCTGCACTTGCTGTCT
CAAATTCTAACTGTCTCTTAGGCTCTCATCAACACCCACCTCCATATCCAGATATTGAG
TACCTCAGGGAGTTCAATTTGGAAGCAAATGATGTGAAAATGTACTTTACTATCCAGTAA
CATTCTTGTTAGGGAGTGTTGGCAGAGATTGTGCAACAACCATTAATGCATTTTATCATTC

FIGURE 3GGG

13933 CATCAACACCCACCTCCATATCCAGATATTGAGTACCTCAGGGAGTTCAATTTGGAAGCA
AATGATGTGAAAATGTACTTTACTATCCAGTAACATTCTTGTTAGGGAGTGTTGGCAGAG
ATTGTCGAACAACCATAATGCATTTTATCATTTCGATCAGTCTACAATTTAAACATAGCAG
GACTGGACAGAGGCACAGGAAGATTAAGCCACTGACCTTAAGTCAGACAGTCACATGGGT
AGATCCGGAATCTTGATCTAAAATGAATACCATTTTTTCAGTTATAGCTATCTTCCCAGG
[A,T]
TGGCCAACCAGAATGCATATATAAAATTTCAAAAACAAACATTGGGAATTGCTCTTCAGC
AAGAATACATCAAACACCCATTATGTGCCTAACTCTAAATCTTACTTTTCAGAGAGCTAAA
AACAATTTTCAATTTACAGTGACATTTCATCTTCGCTTCTGCCGTAACCTCACATGCATATGC
CTTAGACCACATTATTAATGAAGTATTGGGGGGTTCCATCTAGAGCACCTTTTCTTCCCT
GGAGTTAATCATCCAGTTCAGCACCACTCTTGAGCTTTGCTTAGCTTCTTCTACCCATT

14086 GATCAGTCTACAATTTAAACATAGCAGGACTGGACAGAGGCACAGGAAGATTAAGCCACT
GACCTTAAGTCAGACAGTCACATGGGTAGATCCGGAATCTTGATCTAAAATGAATACCAT
TTTTTCAGTTATAGCTATCTTCCCAGGATGGCCAACCAGAATGCATATATAAAATTTCAA
AAACAAACATTGGGAATTGCTCTTCAGCAAGAATACATCAAACACCCATTATGTGCCTAA
CTCTAAATCTTACTTTTCAGAGAGCTAAAAACAATTTCAATTTACAGTGACATTCATCTTC
[G,A]
CTTCTGCCGTAACCTCACATGCATATGCCTTAGACCACATTATTAATGAAGTATTGGGGGG
TTCCATCTAGAGCACCTTTTCTTCCCTGGAGTTAATCATCCAGTTCAGCACCACTCTTGA
GCTTTGCTTAGCTTCTTCTACCCATTTGGATTTTAAGGACAACAATTCCAATGGCCTTTA
TCCATGTATTTAACAATTCATTATGAGCCAGGTGAAGTGGATCACACCTCTAATCCCAAC
ACTTTGGGAGGCTGAGGCAGGTGGATCGCTGGAGCCCAGGAGTTCACAACCAGCCTGGGC

14094 TACAATTTAAACATAGCAGGACTGGACAGAGGCACAGGAAGATTAAGCCACTGACCTTAA
GTCAGACAGTCACATGGGTAGATCCGGAATCTTGATCTAAAATGAATACCATTTTTTTCAG
TTATAGCTATCTTCCCAGGATGGCCAACCAGAATGCATATATAAAATTTCAAAAACAAAC
ATTGGGAATTGCTCTTCAGCAAGAATACATCAAACACCCATTATGTGCCTAACTCTAAAT
CTTACTTTTCAGAGAGCTAAAAACAATTTCAATTTACAGTGACATTCATCTTCGCTTCTGC
[C,T]
GTAACCTCACATGCATATGCCTTAGACCACATTATTAATGAAGTATTGGGGGGTTCCATCT
AGAGCACCTTTTCTTCCCTGGAGTTAATCATCCAGTTCAGCACCACTCTTGAGCTTTGCT
TAGCTTCTTCTACCCATTTGGATTTTAAGGACAACAATTCCAATGGCCTTTATCCATGTA
TTTAACAATTCATTATGAGCCAGGTGAAGTGGATCACACCTCTAATCCCAACACTTTGGG
AGGCTGAGGCAGGTGGATCGCTGGAGCCCAGGAGTTCACAACCAGCCTGGGCAACATGGT

14141 CCACTGACCTTAAGTCAGACAGTCACATGGGTAGATCCGGAATCTTGATCTAAAATGAAT
ACCATTTTTTTCAGTTATAGCTATCTTCCCAGGATGGCCAACCAGAATGCATATATAAAAT
TTCAAAAACAAACATTGGGAATTGCTCTTCAGCAAGAATACATCAAACACCCATTATGTG
CCTAACTCTAAATCTTACTTTTCAGAGAGCTAAAAACAATTTCAATTTACAGTGACATTCA
TCTTCGCTTCTGCCGTAACCTCACATGCATATGCCTTAGACCACATTATTAATGAAGTATT
[G,-]
GGGGGTTCCATCTAGAGCACCTTTTCTTCCCTGGAGTTAATCATCCAGTTCAGCACCACT
CTTGAGCTTTGCTTAGCTTCTTCTACCCATTTGGATTTTAAGGACAACAATTCCAATGGC
CTTTATCCATGTATTTAACAATTCATTATGAGCCAGGTGAAGTGGATCACACCTCTAATC
CCAACACTTTGGGAGGCTGAGGCAGGTGGATCGCTGGAGCCCAGGAGTTCACAACCAGCC
TGGGCAACATGGTGAGACTCCATCTCTACCATTTTTTTTTTTAATTAGTTGGGTATGGTGG

14831 ACAATTTATTTTCATCATCATTGTCATCATCATTGTCACTGCTCACTCTTCAACATTTTTT
AGGTCAACTTAATTAATATGATACCTTGTGGGATAATTTTTATTTATTTTTATAAAATAT
TGAAGTTTTTGCCACTTTGATAACTTCTTCATTTTCTGTCCAGAGTATAACATACCAGGG
AAAAGGCTCTAAAATAAGGCTTGAGGTATTAATAAGATCTTCTGTTTAAGTCTTATGTTT
CTAATCAATAACTAGAATTGGCCTGATTGCTTTCCTCAGTGGGTTTTCTGGTAGTCCTGA
[T,C]
ATGATATCGAGGCTGTCATATAGTCCTGAAATATCCTATCATTAACATTTGTGGTGGTAT
CTGATATAAAGGTAGATGAACTTCATTGCAGCTATTCTTAGGAAATGCGTATTTAAATGC
ATAGTTAAAAGCAAGATTTACAATTATAGAAGGAATGCAAATGAGTTGTAGAAAGCTCAT
AAAATAAAAATCAAGAAGAAAGAATTACCCATCATGCCTCAGCCCAGTGATAACCACTGC
TAATATTTTTGGCTGTTTTCAATTTGCAACCCCATCTCCATTCTAGCAGCCCTCATCCCTC

15319 AAATCAAGAAGAAAGAATTACCCATCATGCCTCAGCCCAGTGATAACCACTGCTAATATT
TTTGGCTGTTTTCAATTTGCAACCCCATCTCCATTCTAGCAGCCCTCATCCCTCCTACCCA

FIGURE 3HHH

CTATGTTTTTCACTATATTTCTTGTTTAAATTTACTTAATTATTTGTAAATTATGTTTT
CCTCTCACTAGAAAGTGAAGTCCATGAGGGCCAGGGATTTTTGCTATTTTGTTCACTTTT
GTATCCTTAGCACCTACTTTGTTGATTAAGTGAATGCATTAATGATCTATTTTAAATCTG
[T,C]
GTATGTGTATAAAAGACACTTGATATATCTGGGATGATATTCAATATACTTTTGTATCCT
CATTTTCACCATAGGTAGTTTATGTCAATTCCTTGAAATTTGTTGATTTTCTTGAATAAT
TTAGCAGTTGTACAATTCTAAACATAAAATATAATTTGCTTAAATATACATACCATTTTA
AACATATTTAAATGTGAAAATACAGTTGAGTTCTCTTAGATTGCAATTTTGTAACTTTGT
ATAATCCTTTGATCCTGAAAAAAATTTTTTGGCATGAGGGAAGAGATGAATATTTCTTTT

15321 ATCAAGAAGAAAGAATTACCCATCATGCCTCAGCCCAGTGATAACCACTGCTAATATTTT
TGGCTGTTTTCATTTGCAACCCCATCTCCATTCTAGCAGCCCTCATCCCTCCTACCCACT
ATGTTTTTCACTATATTTCTTGTTTAAATTTACTTAATTATTTGTAAATTATGTTTTTCC
TCTCACTAGAAAGTGAAGTCCATGAGGGCCAGGGATTTTTGCTATTTTGTTCACTTTTGT
ATCCTTAGCACCTACTTTGTTGATTAAGTGAATGCATTAATGATCTATTTTAAATCTGTG
[T,C]
ATGTGTATAAAAGACACTTGATATATCTGGGATGATATTCAATATACTTTTGTATCCTCA
TTTTCACCATAGGTAGTTTATGTCAATTCCTTGAAATTTGTTGATTTTCTTGAATAATTT
AGCAGTTGTACAATTCTAAACATAAAATATAATTTGCTTAAATATACATACCATTTTAAA
CATATTTAAATGTGAAAATACAGTTGAGTTCTCTTAGATTGCAATTTTGTAACTTTGTAT
AATCCTTTGATCCTGAAAAAAATTTTTTGGCATGAGGGAAGAGATGAATATTTCTTTTGG

15335 ATTACCCATCATGCCTCAGCCCAGTGATAACCACTGCTAATATTTTTTGGCTGTTTTTCA
TGCAACCCCATCTCCATTCTAGCAGCCCTCATCCCTCCTACCCACTATGTTTTTCACTAT
ATTTCTTGTTTAAATTTACTTAATTATTTGTAAATTATGTTTTTCTCTCACTAGAAAGT
GAACTCCATGAGGGCCAGGGATTTTTGCTATTTTGTTCACTTTTGTATCCTTAGCACCTA
CTTTGTTGATTAAGTGAATGCATTAATGATCTATTTTAAATCTGTGTATGTGTATAAAAG
[A,G]
CACTTGATATATCTGGGATGATATTCAATATACTTTTGTATCCTCATTTTTCACCATAGGT
AGTTTATGTCAATTCCTTGAAATTTGTTGATTTTCTTGAATAATTTAGCAGTTGTACAAT
TCTAAACATAAAATATAATTTGCTTAAATATACATACCATTTTAAACATATTTAAATGTG
AAAATACAGTTGAGTTCTCTTAGATTGCAATTTTGTAACTTTGTAAATCCTTTGATCCT
GAAAAAAATTTTTTGGCATGAGGGAAGAGATGAATATTTCTTTTGGAGTATTTAAATCAT

15477 ATTATTTGTAAATTATGTTTTTCTCTCACTAGAAAGTGAAGTCCATGAGGGCCAGGGAT
TTTTGCTATTTTGTTCACTTTTGTATCCTTAGCACCTACTTTGTTGATTAAGTGAATGCA
TTAATGATCTATTTTAAATCTGTGTATGTGTATAAAAGACACTTGATATATCTGGGATGA
TATTCAATATACTTTTGTATCCTCATTTTTCACCATAGGTAGTTTATGTCAATTCCTTGAA
ATTTGTTGATTTTCTTGAATAATTTAGCAGTTGTACAATTCTAAACATAAAATATAATTT
[G,A]
CTTAAATATACATACCATTTTAAACATATTTAAATGTGAAAATACAGTTGAGTTCTCTTA
GATTGCAATTTTGTAACTTTGTAAATCCTTTGATCCTGAAAAAAATTTTTTGGCATGAG
GGAAGAGATGAATATTTCTTTTGGAGTATTTAAATCATCTCTGCAATAATCCTTTGATCC
TGAAAAAAATTTGTGGCATGAGGGAAGAGAAGAATATTTCTTTTGGAGTGTAAATCA
TCTCTACAATTAATAATATCTAAAGCAGTTTGGTTGGTTTATTTAGGTAGGATTAATTTT

15650 GGGATGATATTCAATATACTTTTGTATCCTCATTTTTCACCATAGGTAGTTTATGTCAATT
CCTTGAAATTTGTTGATTTTCTTGAATAATTTAGCAGTTGTACAATTCTAAACATAAAAT
ATAATTTGCTTAAATATACATACCATTTTAAACATATTTAAATGTGAAAATACAGTTGAG
TTCTCTTAGATTGCAATTTTGTAACTTTGTAAATCCTTTGATCCTGAAAAAAATTTTTT
GGCATGAGGGAAGAGATGAATATTTCTTTTGGAGTATTTAAATCATCTCTGCAATAATCC
[T,C]
TTGATCCTGAAAAAAATTTGTGGCATGAGGGAAGAGAAGAATATTTCTTTTGGAGTGT
TAAATCATCTCTACAATTAATAATATCTAAAGCAGTTTGGTTGGTTTATTTAGGTAGGAT
TAATTTTCAGTATGAATATTTTAAAAACAAATATAGTCAGTTGAATTGCTGTGGAGG
TTTCTGTACGATTTACTCAAAGCTGGCTCTTTTCTGTACGCACTACCACGCCCGGCTAA
TTTTTGCAATTTTTTGGTAGAGATGGGGGTTTTCACCATGTTGGCCAGGCTGGTCTTGAAC

15880 AAAATTTTTTGGCATGAGGGAAGAGATGAATATTTCTTTTGGAGTATTTAAATCATCTCT
GCAATAATCCTTTGATCCTGAAAAAAATTTGTGGCATGAGGGAAGAGAAGAATATTTCT
TTTGGAGTGTAAATCATCTCTACAATTAATAATATCTAAAGCAGTTTGGTTGGTTTAT
TTAGGTAGGATTAATTTTCAGTATGAATATTTTAAAAACAAATATAGTCAGTTGAAT

FIGURE 3III

TGCTGTGGAGGTTTCTGTACGATTTACTCAAAGCTGGCTCTTTTTCTGTACGCACTACCA
[C,T]
GCCCCGGCTAATTTTTGCATTTTTTTGGTAGAGATGGGGGTTTCACCATGTTGGCCAGGCT
GGTCTTGAACCTCTGATCTCAAGTGATCCACCCACCTCAGCCTCTCAAGGTGCTGGGATT
ACAGGCATAAGCCACCATGCCAGCCTGCATTTATCCTTACATGATGGTGAAAAATAATG
TTTGTACTTCCTTCAGAATAATTTCAAGAAGGATCCCTGGAGTCAGCTAATGATTAGAGT
CAGGACTGTGCCTTAGTTGATGGCCCATATAGCACTACTGAACATGCCAGAGCTTTTGCT

16944 TTCAACTCTTACCAGCTCTATGAGCTTGAGCAGGTTACATACTCTTTTCAAGTCTTAGTG
CTTCACTTGTATTTTGGGGCTAATAAGGATTATACGAAATAATGCAGGTTAAATGCCTAG
CACTTTGCTTTACATACTAAGGGTTCCCAAGTGCTTTATTATTAGGTTTCTGAATGTTAT
ATATAAAGTTTCAGTGCTGCAAAAGGAATAGCACTCGAATATAACATTTTCTTTTAAATT
CTCAGCAAGGCAACGTA CTCTATATAGAAGGGTGCACCCTTACAGATAGAATAATGGTG
[G,A]
GCGCACACTTGGACAAGGGAGGAGAAGGGGTTCTTATCCCCACGCACGTGGCCCCCTGCT
CCTGTGTCGTTCCCCTATTGGCTAGGGTTAGACCACACAGGCTAACCTAATTCTGATTGG
CTAATTTAAAGAGAATGACGGGGTGAGGGCTTTGGCAGAGTCAGGGCAGAGCAGATAGCA
GGTAATCGGACTGAGTTAGGGTGGAGCAGGTGATCTGAATGAGTCAGGGTGGAGCAATCA
AAAAGGTTGCTTTATGAGGAAGTTACGTTTAAAAGTAGAAGGCAGGCTGGGCGCGGTGGC

17061 TAGCACTTTGCTTTACATACTAAGGGTTCCCAAGTGCTTTATTATTAGGTTTCTGAATGT
TATATATAAAGTTTCAGTGCTGCAAAAGGAATAGCACTCGAATATAACATTTTCTTTTAA
ATTCTCAGCAAGGCAACGTA CTCTATATAGAAGGGTGCACCCTTACAGATAGAATAATG
GTGGGCGCACACTTGGACAAGGGAGGAGAAGGGGTTCTTATCCCCACGCACGTGGCCCC
TGCTCCTGTGTCGTTCCCCTATTGGCTAGGGTTAGACCACACAGGCTAACCTAATTCTGA
[C,T]
TGGCTAATTTAAAGAGAATGACGGGGTGAGGGCTTTGGCAGAGTCAGGGCAGAGCAGATA
GCAGGTAATCGGACTGAGTTAGGGTGGAGCAGGTGATCTGAATGAGTCAGGGTGGAGCAA
TCAAAAAGGTTGCTTTATGAGGAAGTTACGTTTAAAAGTAGAAGGCAGGCTGGGCGCGGT
GGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCAGAGGTGGGCGGATCACGAGGTCAGG
AGATGCAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAAAA

17494 CTTTATGAGGAAGTTACGTTTAAAAGTAGAAGGCAGGCTGGGCGCGGTGGCTCACGCCTG
TAATCCCAGCACTTTGGGAGGCAGAGGTGGGCGGATCACGAGGTCAGGAGATGCAGACCA
TCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAAAATTAGCTGGGCGT
GGTGGCAGGCACCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCGGGAGAATGGCATGAAC
CCAGGAGGCGGAGCTTGCA GTGAGGCGAGATCCTGCCATTGCACGCCAGCCTGGGCGACA
[G,C]
AGACTCCACCTCAAAAACAAAACAAAAAAGTAGAAGGCAAAGAATTGAACATACTGACAT
ATTAAGTCTTTGAAAAGAAATTTAGAACTCATATCTAACAATCCCTCCCCTTGATTTCC
TTACAGCTTTCTTTTCAAACTTTTTTTTAATATGCCTTGGCTTAGTAGTTTTGCTTCATT
TTCCAAAAGAAGAAGCTTCTCTGGATAAGGTGGAGGTTAGTTAAGGGAGGTTTCAGTAAG
TGACATTTTTATGAGCCTCTGCATCTACTTACGGATGCACAGTATGACACAGCACCCGAC

17642 CTACTAAAAATACAAAAAAATTAGCTGGGCGTGGTGGCAGGCACCTGTAGTCCCAGCTAC
TCAGGAGGCTGAGGCGGGAGAATGGCATGAACCCAGGAGGCGGAGCTTGCA GTGAGGCGA
GATCCTGCCATTGCACGCCAGCCTGGGCGACAGAGACTCCACCTCAAAAACAAAACAAAA
AAGTAGAAGGCAAAGAATTGAACATACTGACATATTAAGTCTTTGAAAAGAAATTTAGAA
CTCATATCTAACAATCCCTCCCCTTGATTTCTTTACAGCTTTCTTTTCAAACTTTTTTT
[T,A]
AATATGCCTTGGCTTAGTAGTTTTGCTTCATTTTCAAAAAGAAGAAGCTTCTCTGGATAA
GGTGGAGGTTAGTTAAGGGAGGTTTCAGTAAGTGACATTTTATGAGCCTCTGCATCTAC
TTACGGATGCACAGTATGACACAGCACCCGACAAGAATAAGTCCACCTATTACGGCTGCG
AGGGAAGTAAGAATTGAGGCTATTATTCCTTCTCATTTACCAAACCTACTTTTCTAGCCAT
CTTATAAAGGGGTCA TTTACCCCTGAGTTGCTGGCTAACTTATTGGATAGAGCAGTCAGA

17737 GGAGGCGGAGCTTGCA GTGAGGCGAGATCCTGCCATTGCACGCCAGCCTGGGCGACAGAG
ACTCCACCTCAAAAACAAAACAAAAAAGTAGAAGGCAAAGAATTGAACATACTGACATAT
TAAGTCTTTGAAAAGAAATTTAGAACTCATATCTAACAATCCCTCCCCTTGATTTCTTT
ACAGCTTTCTTTTCAAACTTTTTTTTAATATGCCTTGGCTTAGTAGTTTTGCTTCATTTT
CCAAAAGAAGAAGCTTCTCTGGATAAGGTGGAGGTTAGTTAAGGGAGGTTTCAGTAAGTG
[A,C]

FIGURE 3JJJ

CATTTTTATGAGCCTCTGCATCTACTTACGGATGCACAGTATGACACAGCACCCGACAAG
AATAAGTCCACCTATTACGGCTGCGAGGGAAGTAAGAATTGAGGCTATTATTCCTTCTCA
TTTACCAAACCTACTTTTCTAGCCATCTTATAAAGGGGTCAATTTACCCCTGAGTTGCTGGC
TAACTTATTGGATAGAGCAGTCAGACCATGCAGTGCCTTTCTAATACTTCCATTAGGGGC
AGTGTTGTTTGGGATGAAGGTGCAACATTGAGTTTTAATTATGATGCAAACCTACCCCTCT

18068 GATGCACAGTATGACACAGCACCCGACAAGAATAAGTCCACCTATTACGGCTGCGAGGGA
AGTAAGAATTGAGGCTATTATTCCTTCTCATTACCAAACCTACTTTTCTAGCCATCTTAT
AAAGGGGTCAATTTACCCCTGAGTTGCTGGCTAACTTATTGGATAGAGCAGTCAGACCATG
CAGTGCCTTTCTAATACTTCCATTAGGGGCAGTGTTGTTTGGGATGAAGGTGCAACATTG
AGTTTTAATTATGATGCAAACCTACCCCTCTTTCTGCTACTATCATGTCTAAGGCTATTTT
[A, G]
TTTTGCCAAGCCATCTGGCTAGTAGCCCCTAATTGCTCAGCTATTCCATTAACAGCATCT
CTAGTGTAGTTAATAAATCACTGTTGGTTGTAGTAGCTGTAGTTTATCCAATCTACATTT
TTATTAATTGTCACCTACCAAATATTGACTTAAATCCTGCGGCTATTTGATTTTGGGCT
TTAAATTGATCTGGTATTCCTCATGGGACCCTAATTGTGTCTAAATAGACGTGAGAGTTG
AAAGACCCATAAGGGGCTTCTCTCGCTTACGATGTCTTATTTTCTTCTCTGGTTGA

18339 TCTGCTACTATCATGTCTAAGGCTATTTTATTTTGGCAAGCCATCTGGCTAGTAGCCCCT
AATTGCTCAGCTATTCCATTAACAGCATCTCTAGTGTAGTTAATAAATCACTGTTGGTTG
TAGTAGCTGTAGTTTATCCAATCTACATTTTATTAATTGTCACCTACCAAATATTGAC
TTAAATCCTGCGGCTATTTGATTTTGGGCTTTAAATTGATCTGGTATTCCTCATGGGACC
CTAATTGTGTCTAAATAGACGTGAGAGTTGAAAGACCCATAAGGGGCTTCTCTCGCTTA
[C, T]
GATGTCTTATTTTCTTCTCTGGTTGATGAAATGCCAGGGTGAAAGGGATAGCCAATT
GGACTAAAGCACAAGTGCCACTCCAGTTATTTGGCAGAGTGCCAGTAAAGGTCCACCAC
AATACCACCACACATCCACACATCCGCTCGGGGATGAATAAGGGCTGACTGATTGATAAG
CTCTTGAAAATTCTTAAGCTCACTGCATCCCTTCAGGTCTCCAAGGAACGCTAAGTTTCC
TCCCTGTCATGAGAGACACTAAGTGAAGTAGTTTTGGGAGACAGAAGCTGGATGGCCCTT

18361 CTATTTTATTTTGGCAAGCCATCTGGCTAGTAGCCCCTAATTGCTCAGCTATTCCATTAA
CAGCATCTCTAGTGTAGTTAATAAATCACTGTTGGTTGTAGTAGCTGTAGTTTATCCAAT
CTACATTTTATTAATTGTCACCTACCAAATATTGACTTAAATCCTGCGGCTATTTGAT
TTTGGGCTTTAAATTGATCTGGTATTCCTCATGGGACCCTAATTGTGTCTAAATAGACGT
GAGAGTTGAAAGACCCATAAGGGGCTTCTCTCGCTTACGATGTCTTATTTTCTTCTCT
[C, T]
TGGTTGATGAAATGCCAGGGTGAAAGGGATAGCCAATTGGACTAAAGCACAAGTGCCACT
CCAGTTATTTGGCAGAGTGTCAGTAAAGGTCCACCACAATACCACCACACATCCACACA
TCCGCTCGGGGATGAATAAGGGCTGACTGATTGATAAGCTCTTGAAAATTCTTAAGCTCA
CTGCATCCCTTCAGGTCTCCAAGGAACGCTAAGTTTCTCCCTGTCATGAGAGACACTAA
GTGAAGTAGTTTTGGGAGACAGAAGCTGGATGGCCCTTGGGGGCTGACCTGCAGGGTACC

19218 CTTGTTGCCCAGGCTGGAGTGCAATGGCGCAATCTTGGCTCACTGCAACCTCTGCTTCCC
AGGTTCAAGCAATTCTCCTGTCTCAGCCTCCCGAGTAGCTGGGATTACAGGCATGCACCA
CCATGCCTGGCTAAGTTTGTATTTTAGTAGAGACGGTGGTTTCTCCATGTTGGTCAGGC
TGGTCTTGAACCTCCCAACCTCAGGTGATCCCCCTGCCTCGGCCTCCCAAAGTGCTGGGAT
TACAGGCGTGAGCCACCGAGCCTGACCTGTTTTAAGTCTTTAGTTTTTACAATAGCTATC
[A, G, T]
TGGTCTTGTGTTAGATGGAGGAGGAGCAACTGTTCCGTTGTGAGAGGTTTTGGAAGAAG
GCTTACAGGAAGGTGCAGGCGGTGGGGATCAAAGAAATGCATTTTAAATAATCTAATAGG
GTTTGTCCCTGAAACCTCAGCCCCTATAGCATAAACTGACTTAAAGAAGGGAAGTGGCT
TAGAAAAGGGGAAGAAATTTGAGAGTTTGAAGATAATAACCTGTAGAGAATTATAGATAAT
AACCTGTATAGGTTTAGCTGACAGCTGGGGGGAGGGCTGTCTCTTAGTAAATGAGTGT

19298 TCTCAGCCTCCCGAGTAGCTGGGATTACAGGCATGCACCACCATGCCTGGCTAAGTTTGT
ATTTTATAGTAGAGACGGTGGTTTCTCCATGTTGGTCAGGCTGGTCTTGAACCTCCCAACCT
CAGGTGATCCCCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGAG
CCTGACCTGTTTTAAGTCTTTAGTTTTTACAATAGCTATCTTGGTCTTGTGTTAGATGG
AGGAGGAGCAACTGTTCCGTTGTGAGAGGTTTTGGAAGAAGGCTTACAGGAAGGTGCAGG
[C, A]
GGTGGGGATCAAAGAAATGCATTTTAAATAATCTAATAGGGTTTGTCCCTGAAACCTCAG
CCCCTATAGCATAAACTGACTTAAAGAAGGGAAGTGGCTTAGAAAAGGGGAAGAAATTT

FIGURE 3KKK

GAGAGTTTGAGATAATAACCTGTAGAGAATTATAGATAATAACCTGTATAGGTTTAGCTG
ACAGCTGGGGGGAGGGCTGTCTCTTTAGTAAAATGAGTGTATGGTTTTAGTAAATTACAA
AAACTGGTTGGGGCAATCCCTTCTTGCTATTTAGTGGTCCACAGAACATTGGACCAACTA

19629 ATCTAATAGGGTTTGTCCCTGAAACCTCAGCCCCTATAGCATAAAACCTGACTTAAAGAAG
GGAAGTGGCTTAGAAAAGGGGAAGAAATTTGAGAGTTTGAGATAATAACCTGTAGAGAAT
TATAGATAATAACCTGTATAGGTTTAGCTGACAGCTGGGGGGAGGGCTGTCTCTTTAGTA
AAATGAGTGTATGGTTTTAGTAAATTACAAAACTGGTTGGGGCAATCCCTTCTTGCTAT
TTAGTGGTCCACAGAACATTGGACCAACTACAGCATAAAAGCTCTACGTCGGGGGCGGGG
[C,T]
GGGGGGTAGGACTCTGGGTTGACATTGGGGTCTTTATTGAAATTTCCCCGGATTAAATGG
TCCAATTCCTAATGCCAGTCTGATGACAGTCAGGAGGCACAGAGGTATTTTTCTGA
AATAGAGAGGTGTCTTTGACTTGGCAAATCCCCACAGGGTATAACAAGGCAAGCATTAAAG
TGCAATAGTTTGAGGCAAAATTGACTTGGTTATGTTAATAACTAGATGGTCAGCAATAGA
GCCAGTAAAGAAGAAAGAGTAATAGAATAGATAAAAGAGAGTTAAATTTTTCTTAGCTTT

19679 CTTAAAGAAGGGAAGTGGCTTAGAAAAGGGGAAGAAATTTGAGAGTTTGAGATAATAACC
TGTAAGAAATTATAGATAATAACCTGTATAGGTTTAGCTGACAGCTGGGGGGAGGGCTGT
CTCTTTAGTAAAATGAGTGTATGGTTTTAGTAAATTACAAAACTGGTTGGGGCAATCCC
TTCTTGCTATTTAGTGGTCCACAGAACATTGGACCAACTACAGCATAAAAGCTCTACGTC
GGGGGCGGGGCGGGGGTAGGACTCTGGGTTGACATTGGGGTCTTTATTGAAATTTCCCC
[G,A]
GATTAAATGGTCCCAATTCCTAATGCCAGTCTGATGACAGTCAGGAGGCACAGAGGTA
TTTTTTCTGAAATAGAGAGGTGTCTTTGACTTGGCAAATCCCCACAGGGTATAACAAGGC
AAGCATTAAAGTGAATAGTTTGAGGCAAAATTGACTTGGTTATGTTAATAACTAGATGGT
CAGCAATAGAGCCAGTAAAGAAGAAAGAGTAATAGAATAGATAAAAGAGAGTTAAATTTT
TCTTAGCTTTAGTTTGGCAGGGCTTTCCCCTGGGGCTGTGGCCCACTCTGGAGGGGG

19981 ATTAAATGGTCCCAATTCCTAATGCCAGTCTGATGACAGTCAGGAGGCACAGAGGTAT
TTTTTTCTGAAATAGAGAGGTGTCTTTGACTTGGCAAATCCCCACAGGGTATAACAAGGCA
AGCATTAAAGTGAATAGTTTGAGGCAAAATTGACTTGGTTATGTTAATAACTAGATGGTC
AGCAATAGAGCCAGTAAAGAAGAAAGAGTAATAGAATAGATAAAAGAGAGTTAAATTTT
CTTAGCTTTAGTTTGGCAGGGCTTTCCCCTGGGGCTGTGGCCCACTCTGGAGGGGGC
[A,G]
GCGCTTTCTTGACTCGGGTGTGATGAGTCCATCCCTTTTTCTGTAAGAACAGCAGTCT
TGGTGGTGAGCAGCACAAGGTAGGGTCCTTCCCAGGCTGGCTCGAGTTTTCTTCTTTCC
ACCCTTTGATAAGAACGTGATCTTCAGGCTGGTGTGGTTTACCGGAAATTCTAGGGGTG
GTACCTGTGCTAAAAGACTTTTAGTTTTGAGGGAAAGGAAAATGGAAGATAAACCAAGTA
TATAATTTCTAAGAAATGGACCTTTTGTTTTAAATGTGGGGACATCAGCAGTGGACTTTA

20014 GATGACAGTCAGGAGGCACAGAGGTATTTTTCTGAAATAGAGAGGTGTCTTTGACTTGG
CAAATCCCCACAGGGTATAACAAGGCAAGCATTAAAGTGAATAGTTTGAGGCAAAATTGA
CTTGGTTATGTTAATAACTAGATGGTCAGCAATAGAGCCAGTAAAGAAGAAAGAGTAATA
GAATAGATAAAAGAGAGTTAAATTTTTCTTAGCTTTAGTTTGGCAGGGCTTTCCCCTGGG
GCTGTGGCCCACTCTGGAGGGGGCGGCGCTTTCTTGACTCGGGTGTGATGAGTCCAT
[C,T]
CCTTTTTCTGTAAGAACAGCAGTCTTGGTGGTGAGCAGCACAAGGTAGGGTCCTTCCC
AGGCTGGCTCGAGTTTTCTTCTTTCCACCCTTTGATAAGAACGTGATCTTCAGGCTGGT
GTTGGTTTACCGGAAATTCTAGGGGTGGTACCTGTGCTAAAAGACTTTTAGTTTTGAGGG
AAAGGAAAATGGAAGATAAACCAAGTATATAATTTCTAAGAAATGGACCTTTTGTTTTAA
ATGTGGGGACATCAGCAGTGGACTTTATAGTCCTTGGTGCCTTTTTACTGAGAAATTTCC

20280 CGGCGCTTTCTTGACTCGGGTGTGATGAGTCCATCCCTTTTTCTGTAAGAACAGCAGT
CTTGGTGGTGAGCAGCACAAGGTAGGGTCCTTCCCAGGCTGGCTCGAGTTTTCTTCTTT
CCACCCTTTGATAAGAACGTGATCTTCAGGCTGGTGTGGTTTACCGGAAATTCTAGGGG
TGGTACCTGTGCTAAAAGACTTTTAGTTTTGAGGGAAAGGAAAATGGAAGATAAACCAAG
TATATAATTTCTAAGAAATGGACCTTTTGTTTTAAATGTGGGGACATCAGCAGTGGACTT
[C,T]
ATAGTCCTTGGTGCCTTTTTACTGAGAAATTTCTTTAGCACCTATTTTTATTAGATTTT
AGACCAAAGAAGGCCAAACACCATTTTATATTTAACAGTGCTTCTGTATGATTCTTATA
CCAGATAAGCTAAGTTTCACCTTTATATTAGCAAGTTGTTAACTTAATTTTAATAAAAC
TTTGTAGACATATTTATCCAATTTTAAATGTCTGACCATAATGTATGATTCTTATAGACT

FIGURE 3LLL

CTTTTAAACCTTTTATAATTTTTGTTAAAGAGCAGGTTAGTGCTTTAAGAAATACCTGTT

20612 TCCTTTAGCACCTATTTTTATTAGATTTTAGACCAAAGAAGGCCAAACACCATTTTATAT
TTAACAGTGCTTCCTGTATGATTCTTATACCAGATAAGCTAAGTTTACCTTTATATTAG
CAAGTTGTTAAACTTAATTTTAATAAACTTTGTAGACATTTTATCCAATTTTAAATGT
CTGACCATAATGTATGATTCTTATAGACTCTTTTAAACCTTTTATAATTTTGTAAAGA
GCAGGTTAGTGCTTTAAGAAATACCTGTTGTGCTTTTATTTAATGTCCAGTTCACAGAA
[A,C]
AACTGTATGATACCCCTTAAACTTTAGCCAATATGTTTACACACAGAATTTCTTTATAA
TTAACATTTCAAACTTGCTTAAACCTTTAAACAAATATTTGTTTATTTTAACTTT
TAATGTAGGTAAAAATCCACATTCTTATGGCTCCTTATAATCCTTTTACCAAAGGCATAT
TTACTTTCTTATACACCTTGACATAAACTGTTTCTTCAATAGCTTTACATTCAGGAG
GCTTAATTACTTTTAAATTATACAACATTTCTTACATAAATCCCTTTTAAACTTTTTT

21966 GGTTTCCTCTAAAAGTTACTTTTCTACTTCCTTCTGTTAGCAAAGCAGTTGCGGCTACAG
ATTGAATGTATTCAAGCCATCCGCGGGTACTGGGTAAAGATTTTGTAGGAAGGCTA
CTGGTTGTCAGTGGCCTCAGTGCTTTCAAGCTATGCCCTTGTTTATACTTACAACAAGGT
GGTACTGGAGTGTTATAGGGTCACCGAGAAGACCTTCGATTATCAGTTATAGGTTTTAAA
TTACCCTGGCTTTTTTTTTTTTATTATTATACTTTAAGTCCTAGGGTACATGTGCACAA
[C,T]
GTGCAGGTTTGTTACATATTTATACATGTGCCACGTTGGTGTGCTGCACCTATTAECTAA
GGAATAGGGTACACTGTTTTTTCTTTACTACTTCTATCTCTTTCTTTCCCTCTCTGACTT
TCTGTCTCTTTCTTTCTGACTCCCTCTTTGTAGCTCTGCCTCTCTTTCTCTCTCTGCC
TCTCTCCTCTGTCTCTCTCTCTCTGTCTCTGTCTCTGTTTCTCTCTCTCTCTGTTTCT
TCTCTCCTCTGTCT

22017 CGGCTACAGATTGAATGTATTCAAGCCATCCGCGGGTACTGGGTAAAGATTTTGTATA
GGAAGGCTACTGGTTGTCAGTGGCCTCAGTGCTTTCAAGCTATGCCCTTGTTTATACTTA
CAACAAGGTGGTACTGGAGTGTTATAGGGTCACCGAGAAGACCTTCGATTATCAGTTATA
GGTTTTAAATTTACCCTGGCTTTTTTTTTTTTTTATTATTATACTTTAAGTCCTAGGGTACA
TGTGCACAACGTGCAGGTTTGTTACATATTTATACATGTGCCACGTTGGTGTGCTGCACC
[T,C]
ATTAECTAAGGAATAGGGTACACTGTTTTTTCTTTACTACTTCTATCTCTTTCTTTCCCT
CTCTGACTTTCTGTCTCTTTCTTTCTGACTCCCTCTTTGTAGCTCTGCCTCTCTTTCTCT
CTCTCTGCCTCTCTCCTCTCTGTCTCTCTCTCTCTGTCTCTGTCTCTGTTTCTCTCTCTC
TCTTGTCT
CTCTCTCTTTCT

28009 AATTTGTCCTTTTTTACCCTTCCTTGGCAAATCACGCAATATTCCTTCTTAAAAATGGGT
AAAGTGCCAGCCGAACCTTAGAAGAGGGACTGATTCTATCTCTATTCTGACCAGGTATACG
GTAGACTGTAATTTAATGTCAGCACCTTTCTGTTGCCATAATGAGGTATATTTATTTCTG
TTCAAAGATCATGCAGCCCTGACAAAGCAAATACCCTCTGACTCCCACTGTTAATTATCC
TTCAGTTGCTACAGGGTTTTTATCCATGTCTCACTTAGGAGAGTTGGCGGTTGTGAAGC
[G,A]
GATGGAGTCCACAATCTCAGTGGCAGTTCTTAATGCTTTGAGCTCAAAGTGTGAGTAAGT
CGATGAGTGAGGCTTTTAAAGATGTAAATCCAATATCTGCAGAGAAATCTGAAGCTGTAAT
ATTAGAACAACATTCAAATGAGGACTTCATTGACTAGCTCATTAAGAAGTCCTTTGATAA
TAGCATGTTGGTAAGACTTTTCTTAGAAGGTACATATTATAAATGATGATGTGCTAAGAA
ATCAACATAAAGGAAAATAGAAAAATTTTCCCCAAATCCATCCTTTTTCTGTAGAACTTT

28059 AAAAATGGGTAAAGTGCCAGCCGAACCTTAGAAGAGGGACTGATTCTATCTCTATTCTGAC
CAGGTATACGGTAGACTGTAATTTAATGTCAGCACCTTTCTGTTGCCATAATGAGGTATA
TTTATTTCTGTTCAAAGATCATGCAGCCCTGACAAAGCAAATACCCTCTGACTCCCACTG
TTAATTATCCTTCAGTTGCTACAGGGTTTTTATCCATGTCTCACTTAGGAGAGTTGGCG
GTTGTGAAGCAGATGGAGTCCACAATCTCAGTGGCAGTTCTTAATGCTTTGAGCTCAAAG
[T,A]
GTGAGTAAGTCGATGAGTGAGGCTTTTAAAGATGTAAATCCAATATCTGCAGAGAAATCTG
AAGCTGTAATATTAGAACAACATTCAAATGAGGACTTCATTGACTAGCTCATTAAGAAGT
CCTTTGATAATAGCATGTTGGTAAGACTTTTCTTAGAAGGTACATATTATAAATGATGAT
GTGCTAAGAAATCAACATAAAGGAAAATAGAAAAATTTTCCCCAAATCCATCCTTTTTCT
GTAGAACTTTAATGATGATACCTCATTCTTTGTAACCTAATTTTAAAAAGTTAATTATG

FIGURE 3MMM

28580 CCAAATCCATCCTTTTTCTGTAGAACTTTAATGATGATACCTCATTCTTTGTAACCTTA
ATTTTAAAAAGTTAATTATGCACCTACTATGATACGTCCAAAATGTTTTAGGTGATGTG
GATATAGCGAAGAACAAGACACACCCAGTGTCTTCCTTCATGGAGTCTATATTCTTGGCA
CTGTTGGTCCTGTGTGAAGTCCTAACATTATTTTGCTTAATGTTTTGGCAAGAGAGGCAA
CATTGGCTGGGCGTGATGGCTCATACCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGA
[T,C]
GGATCACCTGAGGTAGGGAGTTCAAGACCAGCCTGATAACATAGAGAAACCCTGCCTCTC
CTAAAAATACAAAATTAGCCAGGCATGGTGGTGCGTGTCTGTAATCCCAGCTACTCTGGA
GGCTGAGGCAGGAGAATCACTTAAACCTGGGAGGCAGAGGTTGTGGTGAGCCGAGATTGT
GCCATTGCACTTGTA CTCCAGCCTGGGCAACAAGATTGAAACTCCATCTCAAAAAAAAAA
AACCAACAGGCAACATTCTGGGCTGAAACAAAGGTAATTCTCTGGTAACAATAGCAATA

28595 TTTCTGTAGAACTTTAATGATGATACCTCATTCTTTGTAACCTTAATTTTAAAAAGTTAA
TTATGCACCTACTATGATACGTCCAAAATGTTTTAGGTGATGTGGATATAGCGAAGAAC
AAGACACACCCAGTGTCTTCCTTCATGGAGTCTATATTCTTGGCACTGTTGGTCCTGTGT
GAAGTCCTAACATTATTTTGCTTAATGTTTTGGCAAGAGAGGCAACATTGGCTGGGCGTG
ATGGCTCATACCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGATGGATCACCTGAGGT
[A,C]
GGGAGTTCAAGACCAGCCTGATAACATAGAGAAACCCTGCCTCTCCTAAAAATACAAAAT
TAGCCAGGCATGGTGGTGCGTGTCTGTAATCCCAGCTACTCTGGAGGCTGAGGCAGGAGA
ATCACTTAAACCTGGGAGGCAGAGGTTGTGGTGAGCCGAGATTGTGCCATTGCACTTGTA
CTCCAGCCTGGGCAACAAGATTGAAACTCCATCTCAAAAAAAAAAACCACAGGCAACA
TTCTGGGCTGAAACAAAGGTAATTCTCTGGTAACAATAGCAATAACATAAATAGCAGTA

28823 TGGCTGGGCGTGATGGCTCATACCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGATGG
ATCACCTGAGGTAGGGAGTTCAAGACCAGCCTGATAACATAGAGAAACCCTGCCTCTCCT
AAAAATACAAAATTAGCCAGGCATGGTGGTGCGTGTCTGTAATCCCAGCTACTCTGGAGG
CTGAGGCAGGAGAATCACTTAAACCTGGGAGGCAGAGGTTGTGGTGAGCCGAGATTGTGC
CATTGCACTTGTA CTCCAGCCTGGGCAACAAGATTGAAACTCCATCTCAAAAAAAAAA
[- ,A,C]
CAACAGGCAACATTCTGGGCTGAAACAAAGGTAATTCTCTGGTAACAATAGCAATAACA
TAAATAGCAGTAATAATTATACATTATTGAGTTCCTATTCTCTGCCAAAATGGTTGATA
AGCACCTTTGATATGGCTTATTTTACCTAGTCCTCATTATAACCTTAGAAGGTATATTGT
ATCTGGTCAAAATTGAAAGAAGAAATTGAAACTCACAGAGGGTAAATAATTAAAGTTCAT
AGCTAGTAAGTAGTACAGACAAACCCAAAAGCAGAGTTTCATGCTCATAGTCACCATAAT

28827 TGGGCGTGATGGCTCATACCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGATGGATCA
CCTGAGGTAGGGAGTTCAAGACCAGCCTGATAACATAGAGAAACCCTGCCTCTCCTAAAA
ATACAAAATTAGCCAGGCATGGTGGTGCGTGTCTGTAATCCCAGCTACTCTGGAGGCTGA
GGCAGGAGAATCACTTAAACCTGGGAGGCAGAGGTTGTGGTGAGCCGAGATTGTGCCATT
GCACTTGTA CTCCAGCCTGGGCAACAAGATTGAAACTCCATCTCAAAAAAAAAAACCAC
[C,G]
AGGCAACATTCTGGGCTGAAACAAAGGTAATTCTCTGGTAACAATAGCAATAACATAAA
TAGCAGTAATAATTATACATTATTGAGTTCCTATTCTCTGCCAAAATGGTTGATAAGCA
CCTTTGATATGGCTTATTTTACCTAGTCCTCATTATAACCTTAGAAGGTATATTGTATCT
GGTCAAAATTGAAAGAAGAAATTGAAACTCACAGAGGGTAAATAATTAAAGTTCATAGCT
AGTAAGTAGTACAGACAAACCCAAAAGCAGAGTTTCATGCTCATAGTCACCATAATGTAT

28842 ATACCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGATGGATCACCTGAGGTAGGGAGT
TCAAGACCAGCCTGATAACATAGAGAAACCCTGCCTCTCCTAAAAATACAAAATTAGCCA
GGCATGGTGGTGCGTGTCTGTAATCCCAGCTACTCTGGAGGCTGAGGCAGGAGAATCACT
TAAACCTGGGAGGCAGAGGTTGTGGTGAGCCGAGATTGTGCCATTGCACTTGTA CTCCAG
CCTGGGCAACAAGATTGAAACTCCATCTCAAAAAAAAAAACCACAGGCAACATTCTGG
[G,T]
CTGAAACAAAGGTAATTCTCTGGTAACAATAGCAATAACATAAATAGCAGTAATAATTA
TACATTATTGAGTTCCTATTCTCTGCCAAAATGGTTGATAAGCACCTTTGATATGGCTT
ATTTTACCTAGTCCTCATTATAACCTTAGAAGGTATATTGTATCTGGTCAAAATTGAAAG
AAGAAATTGAAACTCACAGAGGGTAAATAATTAAAGTTCATAGCTAGTAAGTAGTACAGA
CAAACCCAAAAGCAGAGTTTCATGCTCATAGTCACCATAATGTATTCAGAACTTTTAGG

30128 GGCCAATGAATCTGAATTTAAAAACATGTATTTGTGTGATTTTGATGGGTGGACACACTT
GAGAATCACGTGAGGACCATTTATGTGGCTCTCAATTACATATACACTACTTTATATTGC

FIGURE 3NNN

AGTTGTTTATTTATGTTATATTGCAGTTATTTATTTATGTTTCATCTCTTTTCCTGAGAA
ATTACCTTCCTGATAATCCAATGCAGAGATAAATTAAGAAAATCTGTAGGAAAGAATAGA
TCATCAAGTCCCTTGCAACATTCTTCTGAGGTTGTAATAATCTCCTCTAGGATGCTTTGC
[T,A]
GGATTTCCCTGGACTAGGTTGTCTTTTCCTGCTACTTTCTCCCATTAACAGGTCTCCCTAC
GGCAGCACTGCTTATATCACTTGGAACCTGAATCTATTTTGGTAAAAAAAAGTTAAAAA
TTAAATTATCAGAAGGATATTGGGGATGCCTGCAGAGTAATCAAAATAGGATCTATATTG
TTATAGAGCCAGGCACATTAATGCCATCAGCTTTAGCCCTTTATGTTGTGATTTTACTTT
ATTCCAAATGTCAGCTTTATCCTGTTGGATGTGCTGATCTTTTTTCTCTACATTCAGCCA

30150 AACATGTATTTGTGTGATTTTGATGGGTGGACACACTTGAGAATCACGTCAGGACCATTT
ATGTGGCTCTCAATTACATATACTACTTTATATTGCAGTTGTTTATTTATGTTATATT
GCAGTTATTTATTTATGTTTCATCTCTTTTCCTGAGAAATTACCTTCCTGATAATCCAAT
GCAGAGATAAATTAAGAAAATCTGTAGGAAAGAATAGATCATCAAGTCCCTTGCAACATT
CTTCTGAGGTTGTAATAATCTCCTCTAGGATGCTTTGCTGGATTTCCCTGGACTAGGTTG
[T,G]
CTTTTCCTGCTACTTTCTCCCATTAACAGGTCTCCCTACGGCAGCACTGCTTATATCACTT
GGAACCTGAATCTATTTTGGTAAAAAAAAGTTAAAAATTAATTATCAGAAGGATATTG
GGGATGCCTGCAGAGTAATCAAAATAGGATCTATATTGTTATAGAGCCAGGCACATTAAT
GCCATCAGCTTTAGCCCTTTATGTTGTGATTTTACTTTATTCCAAATGTCAGCTTTATCC
TGTTGGATGTGCTGATCTTTTTTCTCTACATTCAGCCAGTTCCATTCTCATGTTCTGGAA

30188 GAGAATCACGTCAGGACCATTTATGTGGCTCTCAATTACATATACTACTTTATATTGC
AGTTGTTTATTTATGTTATATTGCAGTTATTTATTTATGTTTCATCTCTTTTCCTGAGAA
ATTACCTTCCTGATAATCCAATGCAGAGATAAATTAAGAAAATCTGTAGGAAAGAATAGA
TCATCAAGTCCCTTGCAACATTCTTCTGAGGTTGTAATAATCTCCTCTAGGATGCTTTGC
TGGATTTCCCTGGACTAGGTTGTCTTTTCCTGCTACTTTCTCCCATTAACAGGTCTCCCTA
[C,T]
GGCAGCACTGCTTATATCACTTGGAACCTGAATCTATTTTGGTAAAAAAAAGTTAAAAA
TTAAATTATCAGAAGGATATTGGGGATGCCTGCAGAGTAATCAAAATAGGATCTATATTG
TTATAGAGCCAGGCACATTAATGCCATCAGCTTTAGCCCTTTATGTTGTGATTTTACTTT
ATTCCAAATGTCAGCTTTATCCTGTTGGATGTGCTGATCTTTTTTCTCTACATTCAGCCA
GTTCCATTCTCATGTTCTGGAAGCTTGTGACAGAGGGGGAATATGCATTTCAAGATCAGA

30453 TTTCTGCTACTTTCTCCCATTAACAGGTCTCCCTACGGCAGCACTGCTTATATCACTTGG
AACTTGAATCTATTTTGGTAAAAAAAAGTTAAAAATTAATTATCAGAAGGATATTGGG
GATGCCTGCAGAGTAATCAAAATAGGATCTATATTGTTATAGAGCCAGGCACATTAATGC
CATCAGCTTTAGCCCTTTATGTTGTGATTTTACTTTATTCCAAATGTCAGCTTTATCCTG
TTGGATGTGCTGATCTTTTTTCTCTACATTCAGCCAGTTCCATTCTCATGTTCTGGAAGC
[T,C]
TGTGACAGAGGGGGAATATGCATTTCAAGATCAGAAGATCCAGAGTGAAAATGATTGGAA
TGGCCTGAGTCACAGTTCCAATCCTAGAACAAGGCATCTTGCTAGGGATGTGAGAGATGA
TAAGTGACAGATACAGTGACAGCAAGTGGTTGATGGGATCTGAGTTGTGAGAGAGGGTCT
GTGAAAAATGAAAGACCTGCATAAGAAGAGGAGAAGCAGAAATATGAACATTGTTGTGAG
TCAGGTCTTTACCCAACCTCTGTGCTGCTTATTCTACTTTTTTGTGCAAGATTGATTATGT

34990 GGTTACACAGCTGGTGTCTCGTTGCCTGTTTCAGTAGAAAGGTTTACATAAACAGCAAGG
TGTGCTGTTCTCAATAGACTCACTTATGTTTCATGATTTGGTACTTGCTCAAGCTGGAATC
AATTTTATAGAAAAATAAAATCTTTTGCAAAGATTTTACCTCAAAAATAGAAAAAAGG
GCATTCTGCCTTACCTTCTACAAGGGTCTTCTCTGAAATTCCAAGCATCAGGGTGTTAT
AACAGACTCTAAAAAGGGTTTCTTTTTTCTTTCTTTAACATTGCTTATTGCACAGCAT
[A,G]
TTGAGACAGAGAAGATGGTAAGTGAAATAAAACAAAGGAAATAAAAAGTATCATCACTGG
GTTTCAGAATCAGCATGGTTTATGCTAAGGGAAAGACTTGGAACCTTGATTCAACATAT
AATTCTAAAAAGAGACAGGAAGAAATCCCACCTTGTTTCCTCTGATTCTACCTTTGGGAT
GGGTAGGTATGTTATACAATAAGAATAACATTGAGATGACTGCTATAAAAATAGTGGTTA
AGAGCCTGGGTCCAGAATGAGAAAGGTGGATATTGAATTTACCTGAGTGCAACTAGGCAG

35203 CTGAAATTCCAAGCATCAGGGTGTTATAACAGACTCTAAAAAGGGTTTCTTTTTTCTTT
CCTTTAACATTGCTTATTGCACAGCATATTGAGACAGAGAAGATGGTAAGTGAAATAAAA
CAAAGGAAATAAAAAGTATCATCACTGGGTTTCAGAATCAGCATGGTTTATGCTAAGGGA
AAGACTTGGAACCTTGATTCAACATATAATTCTAAAAAGAGACAGGAAGAAATCCCACC

FIGURE 3000

TTGTTTCCTCTGATTCTACCTTTGGGATGGGTAGGTATGTTATACAATAAGAATAACATT
[G,A]
AGATGACTGCTATAAAAAATAGTGGTTAAGAGCCTGGGTCCAGAATGAGAAAGGTGGATAT
TGAATTTACCTGAGTGCAACTAGGCAGACTCAAGTGAGTTGATTTTACCCACTCCTCCAC
TCAAATACTGGGTATGGCTTTGCAAAAACATTCAACCAGTTATCCACATAGTTGGTCTTA
ACTTTCCATGTGACTATAATGAATATAAACTTGCTAATGAGCAGAGTGTGATTTTAGTGT
TTAAACTATTTTTTCCCGAATAATAGTTCCTAGATGCAGTTAATGAGCCTTATTGGGTAC

36206 TCCAAGTAATTATCACAACATTAAGGTGCATTCAGCTTTGTGTGTTAACGTGGTATACCT
CCAGGCAACTTTTAGGATACTGTACAGATACAATGGCTGTGAAGGCTGGGATGAAAAGAC
CTGTGCGAAGCAGGACTGAGGCACTTAAGGAAGGCCTCAGAGTTACATCTCCTTTGCCTG
TTTTCTTGCAAGGCCACATACCCTAGCCCAGCCCTGTCAGCATGAGTGAGAACCAGGCTCT
GCCTTTGCCCACTAAACCACTACCTTCAAGGCCCCACAAAGACCCAGTGTCTCCAGAC
[G,A]
GTCTTTCTGTCTTCTTAACACTCAGAGCTCCATGAACCAGAATGAAAGTTTTGGAACATG
ATCCAAGTAAAAGACTCAAGAAGTAAACACCACTAAGGTAACTTTGCTTTAGAGGTTAG
AGAAAACACTGCAAGGACACCACACAGAGACTATGAAAACCCCAAATGTATTGAAATGA
TGCTGATTCCATTTACCTCCATATTGCCTGATAATACCCAGGTGCTACCATGGCAGCTTA
AGGTGGTATTTGCTGGGAGCTATGATACTCTTTAAGAAGTAATAGCACTACTAGTAAAAG

39692 AAAATTGAAATTACTTAGATACAAAAGAGTGGTTGTAGTAAGAAAATAGGCAAGGAGAAC
ATTTTAAAGTGCTGATCCTCGGTAAAGCCATACATAGGATGCACCTGGGAGCAGATCTTT
CTGAAGTCATTCTGTGCTCAGAGATGTTTCTCCTTACCTTGCTGCCTATGTCAAATTCTC
TGTGATATGTTCTTAGAGCCCCATGACCTCTCTTCTTAACTTGCAGTGGGAGCTTGAATT
TTCCATTTATTTTTGTGACCATTTAGTCTATAAGAGTCTCCGTCTTTACAGGGCCCTCAC
[C,T]
TGA CTACAGACTCCATAAAGGCAGAGATTCTATTTTTACTCTATTATTACTGTATTCCCA
GCACTAAGCACTAGGATTAATACATAGTAAGTGTTCAACAGATGTTTACTGGATGATTAG
ATTGGCATTTTAAGGTAGTCTGAGATCACGTTT TAGACAAGATACTTCAGTTTAGTCCAA
TCTTTATTATTTATTAGCTACTAAAGAGAAATTGATAATTACTCATGATATTCTTCTTTT
TTGTTTTACAGTCAACTTTGACCACTTTGAAATTTTGCGAGCCATTGGGAAAGGCAGTTT

40095 TGTTTACTGGATGATTAGATTGGCATTTTAAGGTAGTCTGAGATCACGTTTTTAGACAAGA
TACTTCAGTTT TAGTCCAATCTTTATTATTTATTAGCTACTAAAGAGAAATTGATAATTAC
TCATGATATTCTTCTTTTTTTGTTTTACAGTCAACTTTGACCACTTTGAAATTTTGCGAGC
CATTGGGAAAGGCAGTTTTGGGAAGGTGAGAACAAATTGAAATGATTAACCACCAGCAGG
GTTATGTAGCCCAGGGAACAGAGGGTCCAGAAATGTTACATTATTGAGTTGCTGGGACC
[A,G]
CAAGGAAAGATAATTAAGTGAAAATGTTTTTGTAAATGGATTTTTATAAAATTGTCACCAC
AGTTTAAGAAAAGCGTGTGACAGGCAGCTACATAATGAACATATACTGTTGTCAGAATAA
TCTCATTAACTCAAATCTGTTTACTCTCAGTAACTTTAAGGCTTTTCTCTCTACCCTA
AAGGAGATGAAGATTTT CAGAATCATTTTCAGATTCTACCAGCTGTATGCCCAGTAATAGT
TATCTTGTTTATGGAAGAGTTACTTATTTTCATGTGGGAAAGAAGTCATCCGATTTCTAT

40191 TACTAAAGAGAAATTGATAATTACTCATGATATTCTTCTTTTTTGTTTTACAGTCAACTT
TGACCACTTTGAAATTTTGCGAGCCATTGGGAAAGGCAGTTTTGGGAAGGTGAGAACAAA
TTGAAATGATTAACCACCAGCAGGGTTATGTAGCCCAGGGAACAGAGGGTCCAGAAATGT
TCACATTATTGAGTTGCTGGGACCACAAGGAAAGATAATTAAGTGAAAATGTTTTTGTA
TGGATTTTTATAAAATTGTCACCACAGTTTAAGAAAAGCGTGTGACAGGCAGCTACATAA
[T,C]
GAACATATACTGTTGTCAGAATAATCTCATTAACTCAAATCTGTTTACTCTCAGTAAAC
TTTAAGGCTTTTCTCTCTACCCTAAAGGAGATGAAGATTT CAGAATCATTTTCAGATTCT
ACCAGCTGTATGCCCAGTAATAGTTATCTTGTTTATGGAAGAGTTACTTATTTTCATGTG
GGAAAGAAGTCATCCGATTTCTATTTGTTTCCTCATTTGTCTAATGTTTTTATCTTAAGA
AAAATACATATTCAGTTTAATTTTTTTTGCAAGAACTTCTGTATTCAAACCCTGATTAC

40287 CAGTTTTGGGAAGGTGAGAACAAATTGAAATGATTAACCACCAGCAGGGTTATGTAGCCC
AGGGAACAGAGGGTCCAGAAATGTT CACATTATTGAGTTGCTGGGACCACAAGGAAAGAT
AATTAAGTGAAAATGTTTTTGTAAATGGATTTTTATAAAATTGTCACCACAGTTTAAGAAA
AGCGTGTGACAGGCAGCTACATAATGAACATATACTGTTGTCAGAATAATCTCATTAAAC
TCAAATCTGTTTACTCTCAGTAACTTTAAGGCTTTTCTCTCTACCCTAAAGGAGATGAA
[G,A]

FIGURE 3PPP

ATTT CAGAATCATTTT CAGATTCT ACCAGCTGTATGCC CAGTAATAGTTATCTTGTTTAT
GGAAGAGTTACTTATTTT CATGTGGGAAAAGATCATCCGATTTCTATTTGTTTCCTCAT
TTGTCTAATGTTTTTATCTTAAGAAAAATACATATTCAGTTTAATTTTTTTT GCAAGAAA
CTTCTGTATTCAAACCCTGATTACTAGTTTCTCAATGGAGACGTACTTTAAGAGAATAAT
ATTT CATATAAAACTTGCATTTTAAAATCATTTTCTGTTTACTTTTT CAGGCATTATACA

40384 TTGCTGGGACCACAAGGAAAGATAATTAAGTGAAAATGTTTTTGTAAATGGATTTTTATAA
AATTGTCACCACAGTTTAAAGAAAAGCGTGTGACAGGCAGCTACATAATGAACATATACTG
TTGTCAGAATAATCTCATTAAACTCAAATCTGTTTACTCTCAGTAAACTTTAAGGCTTTT
CTCTCTACCCTAAAGGAGATGAAGATTT CAGAATCATTTT CAGATTCTACCAGCTGTATG
CCCAGTAATAGTTATCTTGTTTATGGAAGAGTTACTTATTTT CATGTGGGAAAAGATCA
[T,C]
CCGATTTCTATTTGTTTCCTCATTTGTCTAATGTTTTTATCTTAAGAAAAATACATATTC
AGTTTAATTTTTTTT GCAAGAACTTCTGTATTCAAACCCTGATTACTAGTTTCTCAATG
GAGACGTACTTTAAGAGAATAATATTT CATATAAAACTTGCATTTTAAAATCATTTTCTG
TTTACTTTTT CAGGCATTATACAGACCTCTAAAGAAATTTCAAAAACATGGACATCATAT
T TAGTGTTTTTCCAGTCCTTAAAGTCCTTTTTGGTTATATCATGTATGGGTTGTAAACAG

40510 GAATAATCTCATTAAACTCAAATCTGTTTACTCTCAGTAAACTTTAAGGCTTTTCTCTCT
ACCCTAAAGGAGATGAAGATTT CAGAATCATTTT CAGATTCTACCAGCTGTATGCC CAGT
AATAGTTATCTTGTTTATGGAAGAGTTACTTATTTT CATGTGGGAAAAGATCATCCGAT
TTCTATTTGTTTCCTCATTTGTCTAATGTTTTTATCTTAAGAAAAATACATATTCAGTTT
AATTTTTTTT GCAAGAACTTCTGTATTCAAACCCTGATTACTAGTTTCTCAATGGAGAC
[G,A]
TACTTTAAGAGAATAATATTT CATATAAAACTTGCATTTTAAAATCATTTTCTGTTTACT
TTTT CAGGCATTATACAGACCTCTAAAGAAATTTCAAAAACATGGACATCATATTTAGTG
TTTTTCCAGTCCTTAAAGTCCTTTTTGGTTATATCATGTATGGGTTGTAAACAGAAATTC
TTTGACAGTATTATT CAGCTTGACAGTT CAGTCATGTCTATTT CAGTCACTCAAAGCAG
GATTAAGGATGTTACTTGTTATTGGAATATTCCTGACATGGAGGCAGCTATTTT CACCAA

41664 GAAAACAGTGAAAGTACAGAGATTTATTGCAAAGTGGAAGTACACACTCAAGAGAGGG
GAGCATGGGTGAACTCCAGCGAATGTATGTAAGGGGGGGTTTGAGGCTGCTGCCATAAT
GGGTTTCTTTAACCAAGGGGTGAAACATT CATGATGATTCTGAAAAAGATGGAGATTT
CTTGAACTGTGGTGCCAGCTATTTTACACCAAATATGAATGTTCTTGAACTGT CATG
GTGCTGGTGGGTGTATGATTTAGTATGTTAATGAGTGTATGATGAGGTCCTAGGTGAAAC
[C,T]
TAGGTCAAATCCAGCACAATGGAGAGGACCCACAGACTCTCTGAAGGAAACGACTGCTCC
TGCAGGACCCAGGCAACTCCCCAAAACCTGTGAGTACCCCAACTGTGGAGGTGGGAAAGA
GAGACCCTCCTCTCCCAAACACACACCCCACTGGAGAAGCTGAAGGTCTGTTTGCTGGA
GAAGTTTCTGACTTTACCTGGAGCTGAGTGGACTTGAAGAGCCCAGTGAAATACACGGGG
AGAAGAAGCAGCAGAAAGGCCCTGGGAGCTTGCTGGGTCCACAAGCAGGCCATTCTGCC

48324 CACTGATATGTGGAAGCTAAGCTATGAGGATGCAAAGCAATGAGAATGATACAATGGACT
TTGGAGACTTAGGGGGAAGAGTGGGAGGGGGGCGAGGGATACAAGACTACAAATGTGGTG
TAGTGTATACTGCTCAGGTGATGGGTGCAACAAAATCTCACAATCACCCTAAAGAACTT
ACCCATGTAACCAAAACCACCTTTACCCCAATAACTTATGGAAAAATAATCCAGCACCAC
ATTAGGTTTAGTCGGACTTAGCCAGCTTGGCTTACACCCTGGTTTTT CAGGTTCTTATCA
[T,G]
TCCCAGTTTATGCAGCTGTTTCAACATTTTCTTTTTGCTAGTCATGTGAAACTGCTGTCT
GGAATTTTCTTTTCTCCTGCTACCACCTTTATTATTCTGTCTCACTTT CATCTTCATC
CCTACTGTTACATAAATGCATCTTGATTTCTAGGCAAGCATTTGTCAAATTCTCATTAGG
ATCTTCCTCAGGGTCTTTTGTCTCCTTAGTTTCTTTGGCTTTATAGTGAAAGAACATTT
TTCTTTTATTGTCACTAACAAATACTTCTTGGTCAGTTGTCACAGTTCCCCTTGTCTTG

48423 TACAAGACTACAAATGTGGTGTAGTGTATACTGCTCAGGTGATGGGTGCAACAAAATCTC
ACAATCACCCTAAAGAACTTACCCATGTAACCAAAACCACCTTTACCCCAATAACTTAT
GGAAAAATAATCCAGCACCACATTAGGTTTAGTCGGACTTAGCCAGCTTGGCTTACACCC
TGGTTTTT CAGGTTCTTATCATTCCCAGTTTATGCAGCTGTTTCAACATTTTCTTTTGC
TAGTCATGTGAAACTGCTGTCTGGAATTTTCTTTTCTCCTGCTACCACCTTTATTATTC
[C,T]
TGTCTCACTTT CATCTTCATCCCTACTGTTACATAAATGCATCTTGATTTCTAGGCAAGC
ATTTGTCAAATTCTCATTAGGATCTTCTCAGGGTCTTTTGTCTCCTTAGTTTCTTTGG

FIGURE 3QQQ

CTTTATAGTGAAAGAACATTTTTCTTTTATTGTCACTAACAAATACTTCTTGGTCAGTTG
TCACAGTTCCCCTTGTCTTGAGGTCAATATATATATATTTTTAAACATTGTAATTAAAT
ATGCTGACTGGGAAGGAGTTCAGATGTCTTACTAGTTATTAGATACTTTCTTTCCCATG

50015 GCCTTAGCATTTTACCTTCTCATATTTGTCTTTCATCGCTGTGTGGGCAAAGTTGATTTC
ATTCTGTTCCTTTTTTTAAAGAAAATGGGTATTGTGAGGCTTTAAGCTGGCCAAAGATGAT
AGATTTTGCTGTTTGCTAATTTGGTGTCAATCCAGACAACATTCTGTTCTCCATGCATAC
TGACCTGGTGATAACATGACATATAACCTATTCTTTCCTTCTCACTTCTCACATTGAACC
TCACAGTGGAACACTAGGCATCATTAACAATGATAGAAGAAAGAGAGGAGACTTACCTCC
[A,C]
CCCAGTGATTCTGGTACTACATTCAAACTAGAACTAACTGGGAGGGGGAATTCTTAAA
GTACAACAGCAACTCCCTTGTCTTCCAAACCATGAGAAAAATCTTCACAAATCTGTATC
ATTCTTCCTAATAAATGCTTTTTGTTTTAGTAAGTACAATATATTCAATGTAAGTTTATC
TTTCCACATTTATAAACCATCTTGCAGTGCTTTTGAAGGTGTGATTGTGAGTGTATTAGT
CAGTTCTCACATTGCTATAAAGAAATACCTGAGACTGGGTAATTTTTTAAAGAAAAGAAGT

50095 AAAATGGGTATTGTGAGGCTTTAAGCTGGCCAAAGATGATAGATTTTGCTGTTTGCTAAT
TTGGTGTCAATCCAGACAACATTCTGTTCTCCATGCATACTGACCTGGTGATAACATGAC
ATATAACCTATTCTTTCCTTCTCACTTCTCACATTGAACCTCACAGTGGAACACTAGGCA
TCATTAACAATGATAGAAGAAAGAGAGGAGACTTACCTCCACCCAGTGATTCTGGTACTA
CATTCAAACTAGAACTAACTGGGAGGGGGAATTCTTAAAGTACAACAGCAACTCCCTT
[T,G]
GTCTTCCAAACCATGAGAAAAATCTTCACAAATCTGTATCATTCTTCCTAATAAATGCTT
TTTGTTTTAGTAAGTACAATATATTCAATGTAAGTTTATCTTTCACATTTATAAACCAT
CTTGCAGTGCTTTTGAAGGTGTGATTGTGAGTGTATTAGTCAGTTCTCACATTGCTATAA
AGAAATACCTGAGACTGGGTAATTTTTTAAAGAAAAGAAGTTTAAAGTGGCTCATGGTTCTG
CAGGCTGTGCAGGAAGCATAGTGGCTTCTGCTTTGGGGAGGACTCAGGAAGCTTCCAATC

52300 GTATGAAGAACTGTGTGTGTGGTGTGTGGGTATGTATGTGTTGGGGTTTCAGAGAAAGAA
GGTAAGTAGTCTGGGGGCAGGGACGTTAAGGAGGAAAGAACATTTGGAAATAAAATTCAA
CCTGACTTGCCTCCAGGGACCTGGCTACACTCAGGAACAGTCTTCAAATGTAGGCCATGT
TATCAAGTGAATGCTGCCAGACAGGGCTGGCATCCAGGAAAAGTAAATAAAATCTTCTTG
TGCGTCTGTCTCTGAGGGCTCTTCACAAAGCCCTGGCAACCCACAGCCTGAAAACAAATA
[A,G]
GCCCCAGTCTTTCAGCATAGTTGATTCCCCAGGTGGCTTTTGTTAATTGAGATTAAAC
CTGTAGCTGCACAACTCCTCAGGGCCTCTATCTCTTACTCATGTCTTTGTCCCTGTG
GATAGAAGGGGTCCACATGTGGTTTCAGGAAATTAGGACACCAGATCATCTGTTTTAACT
GGAAAGAACTACCTGTACTGAGAGTGTGACAAGGTCCTTTCAGACTCTGAACATAGCCCA
ATAAATGGTATCAACCTTAAATAACGAGATTCTGAAAATATGATTAAGTATCGAGTTTGC

52623 TTGATTCCCCAGGTGGCTTTTGTTAATTGAGATTAAACCTGTAGCTGCACAACTCCTC
AGGGCCTCTATCTTTTACTCATGTCTTTGTCCCTGTGGATAGAAGGGGTCCACATGTGG
TTTCAGGAAATTAGGACACCAGATCATCTGTTTTAACTGGAAAGAACTACCTGTACTGAG
AGTGTGACAAGGTCCTTTCAGACTCTGAACATAGCCCAATAAATGGTATCAACCTTAAAT
AACGAGATTCTGAAAATATGATTAAGTATCGAGTTTGCTGGAGCCCAGAGCTTGAGGATG
[C,G]
CCACCTGGGAGCACAGATTCACCTTGGCCAGAATGTACACTCCAATTAGCAGCAGTTATA
AGTGGGGTTTTTAAAGAAAAAAGACAAGGCAGTTCCTAAGTTATTTACCAAAAATTTACAT
TAAAATAATGTAAGCTATTGATGGACTATGCATTATTCTTTATATCACAAATTACAGGAA
CACAAAGATAATGGGTGAGGCAGCTAGTCAGGAACAAAATGGCTTTAAAATACTGTCCTT
GAGCATGGGTTTGAGGCTGTGACTGACATCCCATACTCATGTTTCTCTAAACCTAATAAA

52773 TTTTAACTGGAAAGAACTACCTGTACTGAGAGTGTGACAAGGTCCTTTCAGACTCTGAAC
ATAGCCCAATAAATGGTATCAACCTTAAATAACGAGATTCTGAAAATATGATTAAGTATC
GAGTTTGCTGGAGCCCAGAGCTTGAGGATGCCACCTGGGAGCACAGATTCACTTTGCC
AGAATGTACACTCCAATTAGCAGCAGTTATAAGTGGGGTTTTTAAAGAAAAAAGACAAGGC
AGTTCCTAAGTTATTTACCAAAAATTTACATTAAAATAATGTAAGCTATTGATGGACTAT
[G,A]
CATTATTCTTTATATCACAAATTACAGGAACACAAAGATAATGGGTGAGGCAGCTAGTCA
GGAACAAAATGGCTTTAAAATACTGTCCTTGAGCATGGGTTTGAGGCTGTGACTGACATC
CCATACTCATGTTTCTCTAAACCTAATAAATTGTGCATATCTCATATAGCTCAGACTGCT
CTGAGCTATTTTTGTTTTCTCATTTCCCCCTTTTCATCAAGATTTTGCAAAGAAAGCAT

FIGURE 3RRR

GAAGTTATGTGCATGCTTACTTGAGGCATCTTTTTTCTTACCAGTTGACTGTTCTTAG
AGGAAGGTCATATAACCAGTTAAACTCTACCATTTTTGCCTCTTAGTGTGCATGCTTGAGC
CTACTCGCCACCTCCTGAGATCTTATCAGGAACCTACTGATCATCAGTTTCAGGGTTTT
TCTATCTACTGGGAGATTGCCTTTTCTGGCGCCGGCTGCAACCAAATATTATTTGAGAG
AGACAGTTTAAACAACCACCTGACCATCACCTAATGGTTGTCTGACATTCCTTGGTGGAGG
[T, C]
TGGGGGTGATCTCCTGCCTTGCCCATGTCTGCCTGCCTACTGTAACAGACCAACTTAGTT
AAATAGGTGGGCTTTTCAACTTAGTTTGTTTCTTGGTGAGATGACTGACATCATTGTGAA
GCTCTTTAATGAACAGGGCAAAGAAAGCCTTCTCTATGCCTGGACTCGGCATGGACAGCT
CTGGGAAAGAAGAAAGCCTATTTTACCTGAGGGCCTATCTTTTATAAATATTTGTTCAA
ATTCTTTCTTTTAAAACAAAGGTTCTTTTTCAATGACTTACCAAACCAATACACCTTAAC

FIGURE 3SSS

58649 AGGTCATATACCAAGTTAACTCTACCATTTTTGCCTCTTAGTGTGCATGCTTGAGCCTAC
TCGCCCACCTCCTGAGATCTTATCAGGAACCTACTGATCATCAGTTTCAGGGTTTTCTA
TCTACTGGGAGATTGCCTTTTCTGGCGCCGGCTGCAACCAAATATTATTTGAGAGAGAC
AGTTTAACAACCACTGACCATCACCTAATGGTTGTCTGACATTCCTTGGTGGAGGTTGG
GGGTGATCTCCTGCCTTGCCCATGTCTGCCTGCCTACTGTAACAGACCAACTTAGTTAAA
[T,C]
AGGTGGGCTTTTCAACTTAGTTTGTTTCTTGGTGAGATGACTGACATCATTGTGAAGCTC
TTTAATGAACAGGGCAAAGAAAGCCTTCTCTATGCCTGGACTCGGCATGGACAGCTCTGG
GAAAGAAGAAAGCCTATTTTACCTGAGGGCCTATCTTTTATAAATATTTTGTTCAAATTC
TTTCTTTTAAAACAAAGGTTCTTTTCAATGACTTACCAAACCAATACACCTTAACCAAG
GTTATGTCTAAACCAAGGATCAACTAGGCATTTCAAAGAGTGGCAAAGTAGTCCTCACA

62188 GGTGGCCTTCAGAGCCACAGCATCAACAATATTAACCTCCCTATTAGTAGTGTTCTATTA
CTTTGGGTTTTACATATATTATCTCATTTATTATCATATAACAACCTGGTTGATAGGGATT
ATTATCCCATTCTATTCTGAAGAACTGAGGCTCAAAGGAGCTAAAATATTTTCCTAT
AGTCACACAGCTAGGAAGTGGCAGAGCGAGGACTCAAACCCAAGAATCCTGACTTCAAAG
CCTCTGCTCTTCTGCTGCACTATACCATCCCTATACACATCTCTGAGACTCCTGTAAAA
[A,T]
TATGTAAGGAACAGGATTTATTTTATTTATTGTCTTTCATATCCCACAAGAATACAACT
GTGTAAGGCAGGTATGTCTGTATGTTTTTATCACTGCCTCATTCCCCATCTTCCACAAC
AGTGCCTACCGCACAGTAAGTGCTCGATAAATATCTTTAAATGAGCATGTGAATGAATG
TGTGTTAGTGTTAGGGCTAAGGCCTTTGGCTTCTGGTTAATTGCCCTTTTGCCATTATG
CCAATGTCATTTGCACACTCACAAACATACCCTCATATAATCATATGCACTTCAGTTTCT

63478 CATCTCAAGATATGTCAAATAAGTGTATTTGGGGTGAAATATTTTGGTTTCCTTTGCTA
GAAATGAAATGTCCCTGCTTCCCCATAGCCAGAAAAGATTCTTGAGTGGACAACTGCACC
TAACTTGAACCTGAGCACTAGAAAGTCTTTTGTTTTATTCTATGTTTTATAAATTTAA
ATCTAATTTTTTGAATATAAAATAATACATATTTTGTAATGTGGAAACACAGAAAGTTC
TAATGAAAAAATAAAAACCTGTATTTATCATCACGCAGAAATATCTGCTGTATTAGTTTTCC
[G,A]
TTGCTGCGGTAACAAATTGCCACAAACCTGGTGGCTTGAGACATCATAGATTTAGTATCT
TACAATTCTGGAAGTCAGAAGTCCAAATCAGTCTCCCTAGGCTAAAATCAATGTGTCAC
CAGGGCTGTGTTTCTTCCAGAGCCTCCAGGTGAGAATCTGTTTCATTATCTTTCTAGCT
TCTTGAGGCTGCCTGTATTCTCGGCTTGTGGCCCCCTTCTTTATCTTCAAAGCCAGCAGC
ATACTATCTTCAAACCTCTCTCTGACTCTGACTTCATGTTCTCCTTATTCATCTTTAAG

65457 AACCTTTTTCTTCTGCCATGAGACTAACCCTGGCTTCTTCACGTGCGGGTGGAAGGGTTC
CTAACAGCAACAGCTGACAACTTAATGAGCAAGCACTTTTTCAGCCTCTGCCACAGTCA
CATTTTCTATCCTATTGGCTAAAGTAAATCACGAAGTCAGGCTCAGATTCAAGGGGTGTA
GAAATAGGCTCCACTTCTGATGAGTGGCACGGCAAAGTCAACATTGCAAAAAGCCAGGCA
GAGATATTACTGTGGCCAGTTTTGCAAACAATCCACCGTAATACATAAAATATGTTTAAG
[C,A]
AGTCCACAAAATGATCAAGGAAATGGTAGAACTATAAACACTGCAAGAACTCAGAGCCA
CATGATGTTATTGAGTCCTTGAGTGCTCTGAAAGGGTTCAAGGAAGAAGTTGTTTTGGC
ATATGACCCTGATGAACCTTGCAAAAGTAGAGAAGAAGGGAGCACAGTTTCTGAAGAAGAA
CTTAGTAGAGAAGTGTTATTCTGTGGCCAGTACGCAGTAATTGTTCCACCTAGAGATGTT
GACTGACTGATGAACAGGAAGCTGAGTCTTTATAATGCAGATATTCACATATTCATTTAC

69947 CTGTAAATCCCAGCTACTTGGGAAGCTGAGGCATGAGAATCCCATGAATCCTAGAGGTGG
AGGTTGCAGTGTGCCGAGATCATGGCGCCAATGCACTCCAGGTTGGGCGACAGATCCAGA
CGCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAATCTTTGCCTATGCCAACGTGGAGCTA
TTCTATCCTGTTTCTTAGAAGCTTCACTGTTTTAGCTTTACATTTAGATCTACAGTCTA
GGATCAAGTTTTATTTTGTCTTCATATAAATAAGTAATTGACCCTTAGCCATTTGTTGAT
[A,G]
AGCTTATACTTTCTTACGTCACCACAGAACCACATTTGTTATTAATCAAGTCACCATCT
ATGTATGGGTTTCTGACTCTGTTCCATTGATTCATTTGTATACTCTTGCATATTTATCA
CTCTGTTTTAATTACTGTAGTTTTTATACTGGATTTTCAGTAATTCATCTTTGGATTATGT
TGGCTACAGTTGGTTCTTTAAATTCATATAAATTTCATAAGTAGCTTTTCAATTTGTA
TTTTAAAGCTGCTGGTATGTATATTGGGTACATGGAGTCTATAGATTAATTCAGGGATAA

69981 GAGAATCCCATGAATCCTAGAGGTGGAGGTTGCAGTGTGCCGAGATCATGGCGCCAATGC
ACTCCAGGTTGGGCGACAGATCCAGACGCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 3TTT

TCTTTGCCTATGCCAACGTGGAGCTATTCTATCCTGTTTCCTAGAAGCTTCACTGTTTTA
GCTTTCACATTTAGATCTACAGTCTAGGATCAAGTTTTATTTTGTCTTCATATAAATAAG
TAATTGACCCTTAGCCATTTGTTGATAAGCTTATACTTTCTTACGTCACCACAGAACCA
[C,T]
ATTTGTTATTAATCAAGTCACCATCTATGTATGGGTTTCCTGACTCTGTTCCATTGATTC
ATTTGTATACTCTTGCATATTTATCACTCTGTTTTAATTACTGTAGTTTTATACTGGATT
TTCAGTAATTCATCTTTGGATTATGTTGGCTACAGTTGGTTCTTTAAAATTCCATATAAA
TTTCATAAGTAGCTTTTCAATTTGTATTTTAAAGCTGCTGGTATGTATATTGGGTACATG
GAGTCTATAGATTAATTCAGGGATAACTAACATCTTTTAAAATATCAAATTTCCAATTC

71165 ACTAGAAGTTTTTTTTTTTTTTTAAACATGAATGAGTACAATATTTTATCAAATACTTTTGT
TTTACTGAGGTCATTTCTATTGTGAGTGAAGCAAGTTGATTTGTAAATATTTAAAGCAATC
TTGATTTCCAAAAGTAAATGCTAGTTGGTCATGTTCTATTATCCTCTTGTGTATATTACT
GGCTACAATAAAATATTTGTTTTTTATATTTTTTATATTATTATTCATACATTATTTATG
TATGTTATTTATTATTTATAAATATGTATTCTATTTATATATATTCCTACATATATTTTA
[G,A]
GATGTACATAGACAAGTTTGAATGGTAACAAGAATGAGCCAACCTGAGAGGAAGAAATTGG
TAATGTAGTAAAGAGCGGGGATGATTGCCAAGTCAGGTCCTGCAGGTGGTGAGATGAATG
TGACTCAGGGCACAGGTGAATGAGCTGACCTTAGGTGGAAGTGGGGACCCTTCCTTCATG
TACTAGGAGAGAAAGCAGAGTTTGAAGTCTGTATGTGTGTGAGCTGCTGGGCTTCTCAGA
GGGCAGATGAAATAGTTCTTATGCCATTGCCTGTGTTTTCCCTGTGGTATATGAGGCCAT

71347 CTACAATAAAATATTTGTTTTTTATATTTTTTATATTATTATTCATACATTATTTATGTA
TGTTATTTATTATTTATAAATATGTATTCTATTTATATATATTCCTACATATATTTTAGG
ATGTACATAGACAAGTTTGAATGGTAACAAGAATGAGCCAACCTGAGAGGAAGAAATTGGT
AATGTAGTAAAGAGCGGGGATGATTGCCAAGTCAGGTCCTGCAGGTGGTGAGATGAATGT
GACTCAGGGCACAGGTGAATGAGCTGACCTTAGGTGGAAGTGGGGACCCTTCCTTCATGT
[A,G]
CTAGGAGAGAAAGCAGAGTTTGAAGTCTGTATGTGTGTGAGCTGCTGGGCTTCTCAGAGG
GCAGATGAAATAGTTCTTATGCCATTGCCTGTGTTTTCCCTGTGGTATATGAGGCCATCC
ACTGAGAATGAAGGTGGTCAGAGTATAGGAAATTTGAGATGCCGAGAAGATCTGTGAAA
TTAGTAGAGAATTAGAATAGGATTTTCTAAGTATCCATTTGAGACTTGTAGTTATAATTA
AACAGAATCTATCCTGCAGATTTGTATTTTTCTCCTTAGATTGCACTTAATAGATCACC

71903 TGCAGATTTGTATTTTTCTCCTTAGATTGCACTTAATAGATCACCAGTTCATTTTTGTTG
CTGTTTAAAAGCATATTGAGTTTAAAGCAGGATTGGAGTTTAAATTGGGTGAGGTATTCTCA
CTGTGACTAAGTTTGATGAATTGAAAAGCGTAGTTGTAGAAAGGAACTCAAGAAGGAAA
TTCTTGGGGAACTTAAAGAATCGTATATATGCAATGTCACTTTTTAAGACAATAATAT
TTTTAAGAATTTACTACTTTTGAGGTGCTGTACTAATATATTACATGTATAATTTCATAT
[A,G]
TCTTCAACTACTAGTTCCTGTAAATAAGTATGCTGATGATGACACGTTCCATTTCTTTTCG
ATAGCCACAAAAACAGGAAGTGATGACAAAGCTGGATTCTAACTCCTGACTCCCAAATTC
TCTAAGACCCTCAGCATTAAACATATATTTTATTTTAATGTTATTATATATGTATCATTAC
TTTTACAACCTTTAAACCAAACATTTTAAAATTAGCTACAACCTGCAAAATCAACTTAAAA
ATTTCAAAGAGCCATTTAACATGATAAATTAAAATATTTTAGTAAAACAAAATCACCCT

71908 ATTTGTATTTTTCTCCTTAGATTGCACTTAATAGATCACCAGTTCATTTTTGTTGCTGTT
TAAAAGCATATTGAGTTTAAAGCAGGATTGGAGTTTAAATTGGGTGAGGTATTCTCACTGTG
ACTAAGTTTGATGAATTGAAAAGCGTAGTTGTAGAAAGGAACTCAAGAAGGAAATTCTT
GGGGAACCTTAAAGAATCGTATATATGCAATGTCACTTTTTAAGACAATAATTTTTTA
AGAATTTACTACTTTTGAGGTGCTGTACTAATATATTACATGTATAATTTCATATATCTT
[C,T]
AACTACTAGTTCCTGTAAATAAGTATGCTGATGATGACACGTTCCATTTCTTTTCGATAGC
CACAAAAACAGGAAGTGATGACAAAGCTGGATTCTAACTCCTGACTCCCAAATTCTCTAA
GACCCTCAGCATTAAACATATATTTTATTTTAATGTTATTATATATGTATCATTACTTTTA
CAACTCTTAAACCAAACATTTTAAAATTAGCTACAACCTGCAAAATCAACTTAAAAATTTT
AAAGAGCCATTTAACATGATAAATTAAAATATTTTAGTAAAACAAAATCACCCTGATAC

71994 TTGGAGTTTAAATTGGGTGAGGTATTCTCACTGTGACTAAGTTTGATGAATTGAAAAGCGT
AGTTGTAGAAAGGAACTCAAGAAGGAAATTCTTGGGGAACTTAAAGAATCGTATATAT
GCAATGTCACTTTTTAAGACAATAATTTTTAAGAATTTACTACTTTTGAGGTGCTGT
ACTAATATATTACATGTATAATTTCATATATCTTCACTACTAGTTCCTGTAAATAAGTA

FIGURE 3UUU

TGCTGATGATGACACGTTCCATTTCTTTTCGATAGCCACAAAAACAGGAAGTGATGACAAA
[G,A]
CTGGATTCTAACTCCTGACTCCCAAATTCTCTAAGACCCTCAGCATTAAACATATATTTTA
TTTTAATGTTATTATATATGTATCATTACTTTTACAACCTCTTAAACCAAACATTTTAAAA
TTAGCTACAACCTGCAAAATCAACTTAAAAATTTCAAAGAGCCATTTAACATGATAAATTA
AAATATTTTAGTAAAAACAAATCACCCTGATACTTTAATATTCTTAGGTCTGAGAAAAA
CCATTATGTCGTATTATTCTGCGTTCTGCTAGCGTTTCTACTGCTGGACATCAGAAAT

72010 TGAGGTATTCTCACTGTGACTAAGTTTGATGAATTGAAAAGCGTAGTTGTAGAAAGGAAA
CTCAAGAAGGAAATTCTTGGGGAAACTTAAAGAATCGTATATATGCAATGTCACCTTTTA
AGACAACCTAATATTTTAAAGAATTTACTACTTTTGAGGTGCTGTACTAATATATTACATG
TATAATTTTATATATCTTCAACTACTAGTTCTGTAAATAAGTATGCTGATGATGACACG
TTCCATTTCTTTTCGATAGCCACAAAAACAGGAAGTGATGACAAAGCTGGATTCTAACTCC
[T,C]
GACTCCCAAATTCTCTAAGACCCTCAGCATTAAACATATATTTTATTTTAAATGTTATTATA
TATGTATCATTACTTTTACAACCTCTTAAACCAAACATTTTAAAATTAGCTACAACCTGCAA
AATCAACTTAAAAATTTCAAAGAGCCATTTAACATGATAAATTTAAATATTTTAGTAAAA
CAAAATCACCCTGATACTTTAATATTCTTAGGTCTGAGAAAAACCATTAATGTCGTATTA
TTCCTGCGTTCTGCTAGCGTTTCTACTGCTGGACATCAGAAATAGAGAATAGTAGAGCC

72612 CTGAGATAAGAGCAGAGACAGGGGAAAAGCAAAACATTTCTGAAGAGGCAGTTGGTCTAG
TTTGGCTATAATCACTAGACGGGTAAAGGAACATTGGGTGCATTAAAAGTAGAGAGCCTG
GGATGAAGGCGTGAAGGCTGAGTAAGAATCTCTTCACTTGGTAGTAATTCTAGTTCATCC
CCCTCTGACCTGCAATTCTGAACATGGTGTAGCTTGGTCAATAAGGAAATAAATTGCCTT
TCTGGCTGGAGAGGCAAAGGGTAGACAATACATTGTGCCAGCTGAACTTCTGTCTCTCC
[G,A]
CTCTGGAGAAGAGCCAGTCACAATGTATGACTCAGCACGCCGGGCACCTCTCCACGCCA
GCCAGGCTGCCCAGCCACTTGCTGAATCACAAGTGGCCATTTCCAATCCCATCAGTGAC
CCAAGCTCTCCAACCTAGACTAGTTTCTCTGTGATCGGTCTATGATTGTCTGAGGAGCACA
AAAAGTATTAACCTTCTAACATTTATTTTCTTCTGATGCTTGTGAACCTTTATAAGC
AAGAGACTGATTTAATTGTTCTCATTATCATCTGAGCATGCCGTCTTGGCTTGCCCTTT

73294 TCTGTAGAAAATAATAATAGCAAAATTTCTCCCTTGAGAAGCTTCATAAATTAAATCTCC
AGAGCCAGTATATGTAAGCCGACAGATTATGAAATATGATTTAATGCTCTGTCCAGAGAA
AGGTCAGGGCTTCAGAAAAATCATCATAATATCAAGAAAACTAATCTGCAACCTGTTAT
ATGATTTTAAAAATCACCCCCCATCTTTTTTACTGTGCAAACTGTAGATTTTGTAT
TTTATTTGAGGCTATAGTTTATGTCTTGAATCACACACATATGAGTATTACTTTCTGTGA
[A,G]
GTTTTCATGACCCCTGCAATCAAACCTTGGGTCCTTCTGTTAGTTTCTATCACAGTATCCT
TCACTTTTCTTTCACAATTCTTGCCATATTCTATAACTACATATTTGTTTGTTAAATATT
TGTTTATCTTTTATAGATGATTGGCTTCAGGAAGAGGGAAACCATGTCCTTTTGTTGAGT
CCTTTATTCTCAGCACCTTGCAACATGAATATACAAAAAATATTTGTAAATGACCAT
CGAATGAACAAGTGCTCATTAAAGTACCAAGCTATATGCCAGGGGTTGCTGATGGTTAGAA

73385 AAATATGATTTAATGCTCTGTCCAGAGAAAGGTCAGGGCTTCAGAAAAATCATCATAATA
TCAAGAAAACTAATCTGCAACCTGTTATATGATTTTTAAAAATCACCCCCCATCTTTTT
TACTGTGCAAACTGTAGATTTTGTATTTTATTTTATTTGAGGCTATAGTTTATGTCTTGAAT
CACACACATATGAGTATTACTTTCTGTGAAGTTTTCATGACCCCTGCAATCAAACCTGGG
TCCTTCTGTTAGTTTCTATCACAGTATCCTTCACTTTTCTTTCACAATTCTTGCCATATT
[C,G]
TATAACTACATATTTGTTTGTTAAATATTTGTTTATCTTTTATAGATGATTGGCTTCAGG
AAGAGGGAAACCATGTCCTTTTGTTGAGTCTTTTATTCTCAGCACCTTGCAACATGAA
TATACAAAAAATATTTGTAAATGACCATCGAATGAACAAGTGCTCATTAAAGTACCAAGC
TATATGCCAGGGGTTGCTGATGGTTAGAAATGAGCAGGGGCACAAATCTTTGTTCAATT
AGTGAGCAATTCAGGCAAAAAGAAAATATTAATGGTGATTATACAATATAATGCAATGCA

74121 CTCTCACCTCAACCTCTTAAGTAGCTGGGACTACAGGTGCATGCCACTATACTGGCTAAT
TTAAAAACAGAAGCCAAACAAAAACACACCTTTTTAAGACTGGGTCTCACTATGTT
GCCCAGGCTGGCCTTGAACCTCTGGCCTCAAGCGATCATCCTGCCTTCAAAGTGCTACC
TTCTAGAGTATTGGGATTACAAGCGTGAGTCATCTGCACCAGGCCTGAAGCATTCTGTAA
TGGAGAAATACCTGGGTGCTATGGAAGGGCAGAGGGGAAACACAGAGGAGTAACATCTA
[G,A]

FIGURE 3VVV

TTTACGTTTGTCAAGGAGAGGCCAGGAAAGACTAACTACAGGGGAGATAAACTCCAACCA
AGAGTCTTTAAGTCTTCCAAGACTTACGTACAAGTTTCTTATTGCTAAAATGGAAGTTT
AATGAACATTTATTTATTTATTTGAGATGGGGTTTCACTCTTGTTGCCAGGCTGGTGTG
CAATGGCACAATCTTGGCTTACTGCAACCTCTGCCCCCAGGTTTCAAGTGATTATCCTGC
CTCAGCCTCCAAAGTAGCTGGAATACAGGAGCCTGCCACCATGCCAGCTAATTTTTTTT

75646 CACTCCAGCCTGTGCTACAGAGAGAGACTCCGTCTTAAAAACAAAACAAAATAACAACA
ACAACAAACAAAGATAGATGCATAGAGTTTTTCACTGTTGCACTATTTATATTAGCCAAA
AACCGGGAAACAACCTGAATATTCATCAAGTGGGGACAGGTTGAGTAATCATGTGACATA
CATAAATTGCAGCACTGCACACTTGAGAAAAGAAGTGAGAAATGTCTCTATTTCTAGTG
TGGTTTGCTCTCCAGAGTATACTGTTAAGTGAAAAAAGCACTGTGGCCTCAAATTTATCT
[A,G]
TAGATTCTATACAATCCCATCAAATCTCAGCTGGCTTCTTTGCAGAAATTCACAAGCT
GATCTTAAAATGTGTATAGAAATCCAAGGGACTCAAATTCATAAATTCAAAGACTAGC
CAAAACAATCTTGAAAAAGAAGAGCAAAGTTGGAGGGCTCATACTTTTCAGTTTCGAAAG
TTGTTATGAAGCTACAATAATCAAGATAGGGTGGTCTGGCATAAGGATAAACATGGAAC
AGAATTGAGCATCTAAAAATAAAGCCTCATATTTCCAGTCAATTGACTTTTAACCAGGGT

75698 TAACAACAACAACAACAAGATAGATGCATAGAGTTTTTCACTGTTGCACTATTTATAT
TAGCCAAAAACCGGAAACAACCTGAATATTCATCAAGTGGGGACAGGTTGAGTAATCAT
GTGACATACATAAATTGCAGCACTGCACACTTGAGAAAAGAAGTGAGAAATGTCTCTATT
TCCTAGTGTGGTTTGCTCTCCAGAGTATACTGTTAAGTGAAAAAAGCACTGTGGCCTCAA
ATTTATCTATAGATTCTATACAATCCCATCAAATCTCAGCTGGCTTCTTTGCAGAAAT
[C,T]
CACAAGCTGATCTTAAAATGTGTATAGAAATCCAAGGGACTCAAATTCATAAATTCAA
AGACTAGCCAAAACAATCTTGAAAAAGAAGAGCAAAGTTGGAGGGCTCATACTTTTCAGT
TTCGAAAGTTGTTATGAAGCTACAATAATCAAGATAGGGTGGTCTGGCATAAGGATAAA
CATGGAACAGAATTGAGCATCTAAAAATAAAGCCTCATATTTCCAGTCAATTGACTTTTA
ACCAGGGTGCCAAGAAAATTCAATGGGGGAAGAATTTGTCTTTTCAACAACCTGGTGCTGG

79007 AATATATTTTTAAGTATATTGATTGCTTTTGGAGGGTTCTAGGAAACAAACAAATCATTT
TGAAAAGTGGTAAATAAAGGAAAGACTTCAGTTCAAGACCAGTCTGAGCAACATAGTAAG
ACCCCATCTCTACAAAAAATTAATAATCAGCTGAGCATTGTGGTGTACATCTTTAGTCC
TAGCCACTTGAAGGCTGAGGCTGGAGGATTGCCTGAGCCCAGGAGTTCAAGGCTGCAGTG
AACTATGATGGCACCCTGTGGTCCAGCCAGGGTTAAATAGCAAGACCCTGTTTCTGGCG
[-,A]
AAAAAAAAAAAAAAAAAAAAAGGAAGACTTAAACATACCTTTCCTATATGAACTGTGCCT
CGGAGTAACTAAATAATTGATTAAGCAAGTTTCTCTGTATAAAAGTACTCCAGCTAAAA
CATTAAGGAGAAATGATAGAATTCAAATATCACACCCTAAGGAATTTTGCATCAAGA
CAACAATAATTAATGACTGATAACACCACACACAGAATACAGACTTATTAATTGTATAAC
TCCTGATCAAGTGCATACCACTATCTGTGAAATAGTTTTGCCAAAAAAAAAAAAAAAAAAT

80043 ATTGCAGGCGTGAGCCACTGCACCCAGCCCACCCTTGGTTTTTTTCAACAAAAAATTACT
AGAAATAAAAGAATAATAGTTGGTCAAGGAAGCTGTAGAATAAGAAAGACTGCCACATAC
ATCAATGGCAGTGGGCGGGCTTTGTTTGAATCCAACCTCTAGCATGCAACATTTGATAAA
AATTTCTTTATTTAAAAAGAAAAGTTTACAAAACAATCAGAAAAAATAAAAAAGATTGAG
GATCTCAGGACAACCTACTAGCCTAGATAATTTATAAAGATTAGATAACTGACTCATTTTT
[A,G]
TTAGTTTCTTTCCTAATAAGGCAATATGTATTAGATATATCAGAGTAGAAGGAAATATTT
TTCTTACATCTATTTGGCTTTTTTAAATATAAACATATATAAGTAAAAACCAAATGATTT
ATAATCCCACCATTTATGTAACCTATCTTATTTTCAAAAAAATTATGCAAATACTAGCAT
TTGTGTGCTTTTTTTTCTTTTGTGTTTGTGTTTATATCCTTTTTTAAATATATCCTTTT
TATGTACCTAAGCAGCTGTATACTATACTGCATACTATAGTGTGAACCTTGTTCTTTCC

80499 AAAAAAATTATGCAAATACTAGCATTTGTGTGCTTTTTTTTCTTTTGTGTTTGTGTGTTT
ATATCCTTTTTTAAATATATCCTTTTTATGTACCTAAGCAGCTGTATACTATACTGCATAC
TATAGTGTGAACCTTTGTTCTTTTCTTTCGTCCTTACAAACATATTGTGGAAAACGTTCCAT
ATCAGAATATAGATATGCCTTTTTGTAGCCATTGAAATGCAAAGAAAAAAGAATATAGA
TCTGTCTCATTTTTTAAAAATGCTGTATAATCTGTAGCACGAATTTACTATAATTTATTC
[G,C]
CATGCTCCCTTATCGATGGGCATGTAAATTGTGTTAATTTTATATGATATAATGAGTATC
CTTATATGTATATCTTGGCACAGTTTTTCGAGTGTATCCATAAAGTTTCTTGCAATGAAA

FIGURE 3WWW

TTATAGGGCAACAAGGGTGTGGTGGCTCTTGTCTGTAATTTCAACACTTTGAGAGGCTAC
GGCAGGAGGATTACTTGAGGCCAGGAGTTTGAGACCAGCGTGGACAACATAGTGAGCCCT
CACCTCTACTAAAAATTAAAAAAAAAAAAAAAAAGAAAAAGTTTGGTATGGTGATATGTACCT

80940 GGTGGCTCTTGTCTGTAATTTCAACACTTTGAGAGGCTACGGCAGGAGGATTACTTGAGG
CCAGGAGTTTGAGACCAGCGTGGACAACATAGTGAGCCCTCACCTCTACTAAAAATTAAA
AAAAAAAAAAAAAGAAAAAGTTTGGTATGGTGATATGTACCTGTAGTCCCAGATACCCAGGA
GGCTGAGGTGGGAGGATCATTGAACCTGGGATGTCAAGGCTACAGTGAGCTATGACTGT
GCCACTGCACTGCAGCCTGGATGACACAGTGAGACCCTGTCTCAAAAAAAAAAAAAAAAAA
[A, -, T]
TACAGGCCAAATCCATATGCTTTTAAAGGATATTTTTGAATTGTTCTCAAAAAGAGGCTT
CACCAATTACCATCCAGGGTATACAAGATACCCATTTCTCCATGTCTTACCAACAGTG
GCTCTCATCAAGCCTTGGTGGAAATGCTCTCATACTGATACTTTAACGACTAAAAGTCAT
GACATATCTGCTTAGGTTGTAAATTGCCTCCCTCTAACTTATACAGAGAGAATTTAGAG
TGTTGTCTCAGCTTGGTTCCAGTGTTATCCAAGCCATTAACCTTTGTTTTGCCTTAGATT

81615 AGTCTCGCTGTGTGCGCCAGGCTGGAGTGCAGTGGCGTGATCTTGGCTCACTGCAAGCTC
CGCCTCCTGGGTTCAAGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGACCTACGGGT
GCATGCCACCACCCCGGCTAATTTTTTGTATTTTTAGTAGAGACAGGGTTTCACCATGT
TAGCCAGGATGGTCTCGGTCTCCTGACCTCGTGATCCGCCCGCCTCGGCCTCCCAAAGTG
CTGGGATTACAGGCATGAGCCACTGTGCCTGGCCACAATGGGGTATTGTTTTTATAGACT
[G, T]
TTGAAATCTGCCTTTGGAAACCATGGGTTTGCTGTGTTGTTATGGTGAATGAATTAGGTG
CACAATACTAGTTTTTAAAAATGAACTTCACACTAGGTACACCTTGAAAAATTATTCCA
GAGCTATAAGAAGAGCTATAAGAAGAAAAATATGATGGGTCAATTGCTCCAAAGAAAGGTT
TTAAATGTAAATTTGTACTTAATGAATAGGACAGTGTACCCTAACCTCCTCCTTGCTAT
TCTTCAGGGATCTCTTCTAACAAGGGCTAATGCTTCACCTAAGCTGTGAAAAGCCTGCTG

82599 CCTTAAAGGAATTTGACTCACAATTTGAAAAACACTGCATTGTAGAATATTTTAGAGTCT
CTTCCCAACCCTCAGAGTCAGATTTATTTCAAGATGGCCCCTGTAAGACAGCTTCAAGCT
TGTGAGTGACTTTCTTTTTCTTTTTACTTCTTTACCATTTACCATGACTCCCAAATAAG
TGACTCTTTTGGCTTATTTGGTAACCATGCTAATTTCTACACATAGAACCTAGAGCATTT
ACATAAGACCCACCCAAAGCTTGTGTTTTAACCTTGCTTCTCCTTTCTTTCTTTGATT
[C, -]
ATTGATTATGTTTTCTATTGCTATCTGTTCAATCTGTGTTTCAGGCAGTGTACAGGTACT
GAGGCAACAATGGTGAGTAAAAGCAAGCATGCATCCTGAGATATACTGGGAATGAAAGAA
GCTAATCCAAAAGCATACAGGAAAATATTTTCAAACCTTTGATAAATTCTGTGTAAGCATA
TGGCATTGCACGTAACAGGGGAACCGCATTTAATATGGAGTGTTGGAAAAGGCTTCTGTG
AGAAGTGACACTTGAGCTAAGACTAGAAAAGTGAAAAGAATATAACCAGGTACTGGACAG

82952 CAGGTA CTGAGGCAACAATGGTGAGTAAAAGCAAGCATGCATCCTGAGATATACTGGGAA
TGAAAGAAGCTAATCCAAAAGCATACAGGAAAATATTTTCAAACCTTTGATAAATTCTGTG
TAAGCATATGGCATTGCACGTAACAGGGGAACCGCATTTAATATGGAGTGTTGGAAAAGG
CTTCTGTGAGAAGTGACACTTGAGCTAAGACTAGAAAAGTGAAAAGAATATAACCAGGTA
CTGGACAGCATCATGAGTGCAGGCACAGGTGACATCGTATCACAAGCTTCTAAGGCTGAA
[-, G]
GGGGCGTGAATTGCTAGCTGGAGAGTGGAAGGAAAAGATCTTCAAGATAAAGCTGGAAAA
ATAAACAGGGCCAGGCCTCATAGGTTTCTGTAGACCATGGAAAGAGGTGAAGGTTATTTT
GAGCCTGGATGACATGATAAACTCACATTGTAAAAATATAACTGCAAGGTAGAGAATGG
ATTGAAGAGGTCCAAGATTACGCAGACAGAGCTATGAACAGCCTATTGCAATGGTCTGGG
TCAAGCATGATGGAGTAGGGTTGGAATAGGGTGGTGAACCTTTATTAGTTATCTTCCTTA

85020 ATCCCTGGGCACTGCTTGCAGGCACTTAATTCTTGATTCAAATGAACTTTAAATGTTT
TATCCATGATGTTATGTCTAAAGAAACATGTCAAAGAAACATGTCAGAGAACTTGACTTT
GAATAGAAATCATGGCTGTGCTTTGAGGGAAACAAAATAAATCACAGAGGTAGGAATGCA
TAGTTACAAGCTACTGTTTGTACACAGCAGAGACCAATTCTACTCTGTCTCATTTC
TCTTCTAATTCCTCATCCCTACACTCCTTCCTGTGTGAAGCCCATGTCTGATCCTGCCTA
[A, T]
TTCAGTGACTGGGGGTCACTGCAGATGCGTGCACAGGGTCTGTTATGGGATCCGGATTTC
TGCCGCCTTCTCCAGACACAAGTTTCCCTCATACCTGTTGTTCCAGCAAATCCAAGCTA
TTCTCCTTTCCCACTTGCACTAGGTTCTTTCCCTAGTCTGTGCTTGCATGCATCCTATT
TTCTCTGGTATTTTTCAAATTTTACTTTGGCACCTGGAGAACGTTTTGGCACCACCATT

FIGURE 3XXX

TGTCAGGTGTTTAACTTTGTGCATTTCTCGTGTGAATGGGAGCGTAGGTCCAGCATCGT

88843 CTTCTGGTGTCAAAAACCTATTTCAGGTGCATTTCTGTAACTCTATGCACCTCTCCCCCA
CCTCCCAGGTGTTATATTTTACAGGCTGTCATACCCTTTTGTACCTCTCCTGAGGAGTTG
TGACATTTGGTGTATAATTAATTCATTTGTCTCCTTTATAAAATTGTGAACTCTGCATGT
TTTGCTTTTCATTGTATAACCAGTATGTGAAAAAATATGAGCCACATGAATGAATGATT
GACCAGAAGTTCAGGCTTACAAGTAGGAAATATTCAAATATAGGACATTAAATCCAAAGG
[C,T]
CTCAGACCTACTTGTACCTTGGTCTTTACATTAATCATGTTATTTATCATCCAAACCAGG
ATACTCTGAGAGCTAAAGAGGATGCTATTAATATTAATAGCACTGGGAAGAGTCAAAGC
CATAAATAATCTAGGCAATTGAGGACCTATGTCAACATCATTAAGGCTTTTCAAGGCAGT
GTTTTTGGTTTTTTATTTTTTGTAGAGACAGGGTCTCCCTATGTTGCCTAGGCTGGCCT
TGAACCTCTGGGCTCAAGCAATCCTCCTGCCTCAGCCTCCCAAACTCTGGGATTACAGG

89700 ATACTGTAATTCTTTTTAAACCTCCTTCTTCAAAGAATCAGCCCGATTGATGTTGTAC
TTGAATTCAAGATAACAAAACACCTTTTAGTTACTTAGAAAGATTAGATTGTAAATATG
TGCTGAGTTCCTAGAAATTAAGAGTGAGAAATGAAAAAAGAATCAATGAAAGTACAGTAG
ATCTCCCGGACAAGGAGAGACCATCTGCATAAACTGAAGATATAAAATATGTGACTTCC
TACTTTTAGATTAAATCTACATTTTGCCTTTGGACATGGTAGAAGATTCAAATACCC
[G,A]
TAAACAGTCAGCACTACGTGGAAGTAGGAGCAGCAGTAGGCTGCTGTTTGCTTAGGGTTT
CCTGGGTACCAGGCTGCCTGCTAAGCACTTGTGAGTTATTTCACTCAGTCTTCCCATAGC
TCCAGGAGGTTTATGGCACTTTGTCCCATTTACCTTCGATGAACTCTGGTTCTGAAA
AATTACTTGCCCAAGTTTGCATGGCTATTAAGTAGGGAAAGCATCATGTTTAGGAAATGC
AGAGCTCTTCACTACTCTCCAGCCTGCAGATGCTCAGCATGGCTGCAGCTCTGAGGGGAG

90002 AAACAGTCAGCACTACGTGGAAGTAGGAGCAGCAGTAGGCTGCTGTTTGCTTAGGGTTTC
CTGGGTACCAGGCTGCCTGCTAAGCACTTGTGAGTTATTTCACTCAGTCTTCCCATAGCT
CCAGGAGGTTTATGGCACTTTGTCCCATTTACCTTCGATGAACTCTGGTTCTGAAAA
ATTACTTGCCCAAGTTTGCATGGCTATTAAGTAGGGAAAGCATCATGTTTAGGAAATGCA
GAGCTCTTCACTACTCTCCAGCCTGCAGATGCTCAGCATGGCTGCAGCTCTGAGGGGAGC
[G,A]
CGGGACACCTATGCATGGCCACCTGCCTCAGGCACCCACAGACGAAAGTGGTACATGTGG
AACGGACAGACAGAGAACAGCCTAAAATTGGAAGCTAAATTGTGTGAGAAAGACAAGTAC
TTCAGAGAAGATAGTGTGGAGTCGCAAAATAAGTTTCATGAGAGCTCATAAGAAAACAG
CCTAAAAGTAGAAGCTAAATTGCGTAAGAAAGACAAGTACTTCAGAGAAGTTGGTTGGGA
GTAAGAAAGCAAGTCTCATGAGAGCTCTGAGGGGTGTAAATGGGACTTTTAACAGCCAAA

90615 TCTAGCCTAGCAAGAGGAGCTCAATGGATGGAAGTCCTCACTTGTTTCCCTGTGTTAACA
TAGAAGGGGGTCTTTTTTAAATTTTGTGTTTCACTTCAGCTTTTCTGCCAGAAATGTCTAG
TGATGTGATGTTTTAAAAAAACCTAAGTATCTGTTTCCGCCACAAATCCCCATTAAGAC
ATAAATGGAGTTTTATTTTGTGGATGTTTAAAAATCCATGGACTTGAACTTTGGTAGTT
TCCCAAATATGTAGAATATTCAGCTAGTTTTCTTCAATTTCAGAATCTTTCTTTCTATC
[A,G]
TTGTTAAAGACACAGGGTTGCATAATAACCATTAAAGTTTGAATTGTGCAATTAGACAACT
TTCTTATTAGTCAAGAAGTCAAACCTTTTGTGTGAGTACAGCTTGAAAATCAGCTTTAGT
TTCCAAAGAATGGCCAGTTTGAAGTATAATATTCTCTTTTGTGTTACTTGAAATCTGCAA
TAAATGCTTTAAATTAGGGACAAAGTGATTATTTGCTTTTATTTAAAAAATAAGGGAAAC
AAAACCTATTACAATCTCTTCTACAGGGTTAGTACTATTCTATTTGTTGATTGCCTCAGC

92506 CAGTCCCAGTGACCAGAAAGAACATACCTTTATCAGCTCGCAGTTTCTTTGGGACAGGTG
TCTGGGCACAGTCTAGTTGAGTTCTCGGCACAGCTGCCATTAAGATGTCAGCCAGAACTG
GGTTCTCTTCTGGAGGCTGAACTGGGCAAGAATCCACTTCCAAGCTCAGTCAGAAATGTTG
GCAGGAGGTATTTCTTGTGGCTGTAGGACCCATGGTGGCTACTTTCTTTAAATTTAACA
AGGAGAAGAATACCGTAGAGTAAGTTGGCTAGAAAGAAAACAGAGTACACATACTTGAAT
[A,G]
ATGATATATAACATTGTAACATAACTCAGTCACAGAAGTAAGACCATCACATCTGCCATG
TAATGTCGGTTAGAAACAAACCATGGAACCAGCCCATGCTGAGGGGCTGGAAATTATGCA
AGGGTGTGAACACCAAAAGCTGGGAATCCTGGGGGTACCGGTACACAGTCTGTTACATT
TCCTCTAAAGAAGTTGCACTGCATCACAGTTCCATACCAATTTCTGCTATGACCTTAAAT
ATAGCCCTGAACTTCCCTGTCAAGGAAGAAGTGAGGAGGTTTCAACAAGTGATCAGTAAT

FIGURE 3YYY

92558 GACAGGTGTCTGGGCACAGTCTAGTTGAGTTCTCGGCACAGCTGCCATTAAGATGTCAGC
CAGAACTGGGTTCTCTTCTGGAGGCTGAACTGGGCAAGAATCCACTTCCAAGCTCAGTCA
GAATGTTGGCAGGAGGTATTTCTTGTGGCTGTAGGACCCATGGTGGCTACTTTCTTTAA
ATTTAACAAGGAGAAGAATACCGTAGAGTAAGTTGGCTAGAAAGAAAACAGAGTACACAT
ACTTGAATGATGATATATAACATTGTAACATAACTCAGTCACAGAAGTAAGACCATCACA
[T,C]
CTGCCATGTAATGTCTGGTTAGAAACAAACCATGGAACCAGCCCATGCTGAGGGGCTGGAA
ATTATGCAAGGGTGTGAACACCAAAAGCTGGGAATCCTGGGGGTACCGTACACAGTCTG
TTCACATTTCTCTAAAGAAGTTGCACTGCATCACAGTTCCATACCAATTTCTGCTATGA
CCTTAAATATAGCCCTGAACTTCCCTGTCAAGGAAGAAGTGAGGAGGTTTCAACAAGTGA
TCAGTAATGATTCTTTTATGTCTAAGATTCTAGGATGATTTCTCTCTGCCCTGGTAGGC

92667 AAGCTCAGTCAGAATGTTGGCAGGAGGTATTTCTTGTGGCTGTAGGACCCATGGTGGCT
ACTTTCTTTAAATTTAACAAGGAGAAGAATACCGTAGAGTAAGTTGGCTAGAAAGAAAAC
AGAGTACACATACTTGAATGATGATATATAACATTGTAACATAACTCAGTCACAGAAGTA
AGACCATCACATCTGCCATGTAATGTCTGGTTAGAAACAAACCATGGAACCAGCCCATGCT
GAGGGGCTGGAAATTATGCAAGGGTGTGAACACCAAAAGCTGGGAATCCTGGGGGTCAAC
[G,A]
TACACAGTCTGTTACATTTCTCTAAAGAAGTTGCACTGCATCACAGTTCCATACCAAT
TTCTGCTATGACCTTAAATATAGCCCTGAACTTCCCTGTCAAGGAAGAAGTGAGGAGGTT
TCAACAAGTGATCAGTAATGATTCTTTTATGTCTAAGATTCTAGGATGATTTCTCTCTG
CCCTGGTAGGCTGCTCTTCAAGTATGACCTCCTCATTGTTTCTCTGCTCTACCACACAC
TCATTCCCCTCCAAGAAGGCTGCCACCTGTAATGACCTGTCTACAGAGCCTGTGATAGT

92803 AATGATGATATATAACATTGTAACATAACTCAGTCACAGAAGTAAGACCATCACATCTGC
CATGTAATGTCTGGTTAGAAACAAACCATGGAACCAGCCCATGCTGAGGGGCTGGAAATTA
TGCAAGGGTGTGAACACCAAAAGCTGGGAATCCTGGGGGTACCGTACACAGTCTGTTCA
CATTTCTCTAAAGAAGTTGCACTGCATCACAGTTCCATACCAATTTCTGCTATGACCTT
AAATATAGCCCTGAACTTCCCTGTCAAGGAAGAAGTGAGGAGGTTTCAACAAGTGATCAG
[A,T]
AATGATTCTTTTATGTCTAAGATTCTAGGATGATTTCTCTCTGCCCTGGTAGGCTGCTC
TTCAAAGTATGACCTCCTCATTGTTTCTCTGCTCTACCACACACTCATTCCCCTCCAAGA
AGGCTGCCACCTGTAATGACCTGTCTACAGAGCCTGTGATAGTGACTTGTGATAAATGG
CTATTAGCACATTTACCAATCAAGGTCCTGTTTGCAATTCGGTTGTGGGTCAAATTTATG
TTTGTTTAACTGAGGTCTTTAGTTTATTTCAAGGCAGAGATCTGGGCTGGAGTGTACCT

95079 TTTGGTAAATCTTCTTTTCAGTAGACCACAAGCCCTTGCAAATGTTCTCTTTTCTAACT
CTGGTAGCAGAAGGACCACTTGAGCCTCAAAACAAAACGGCAGTGCAGTAATGAGGGTAT
TAGGTTGATGTGTTCTATTACGACCTGCTCCCGAGCTACCGAATAATGAATGAGCATGA
ATTACACATTGTGAAAACAGGAGAATCTGCCTTCTTTGTGTTGTATGCATCAAGCAGTTT
CAAAAGGGCTTTGCAATTGTGTTTCTCACACAAAGCCACCCATTTGTGAAAACCCATGTG
[T,A]
AAAGGCAAAGAGAACTGTCTGTGTACAGGTTAACATTTAACTAGACTGGCAGAGCTTTTA
ATAATTTCTATAAGGTTAATGGCTTCGTTAATATGCAACCTGTGATTTGGTCCAAGTTAA
ATTTTACTTTGCCCAGAATACATTATAATATAAAGCTTAAGCTTTATTCTTTCAGGTTTA
GTCATTTAACACATAATATTGATCAATTATGCATGTTGGACACAGAGCTCTGAATAGAGC
TTTGAAATATAAACTATGGTTTTAGTCCTCTTAGAGCTATGATGTTTGGTAGGTTAGGT

95089 CTTCTTTTCAGTAGACCACAAGCCCTTGCAAATGTTCTCTTTTCTAACTCTGGTAGCAG
AAGGACCACTTGAGCCTCAAAACAAAACGGCAGTGCAGTAATGAGGGTATTAGGTTGATG
TGTTCTATTACGACCTGCTCCCGAGCTACCGAATAATGAATGAGCATGAATTACACATT
GTGAAAACAGGAGAATCTGCCTTCTTTGTGTTGTATGCATCAAGCAGTTTCAAAAGGGCT
TTGCAATTGTGTTTCTCACACAAAGCCACCCATTTGTGAAAACCCATGTGTAAAGGCAAA
[G,A]
AGAACTGTCTGTGTACAGGTTAACATTTAACTAGACTGGCAGAGCTTTTAATAATTTCTA
TAAGGTTAATGGCTTCGTTAATATGCAACCTGTGATTTGGTCCAAGTTAAATTTTACTTT
GCCCAGAATACATTATAATATAAAGCTTAAGCTTTATTCTTTCAGGTTTAGTCATTTAAC
ACATAATATTGATCAATTATGCATGTTGGACACAGAGCTCTGAATAGAGCTTTGAAATAT
AAACTATGGTTTTAGTCCTCTTAGAGCTATGATGTTTGGTAGGTTAGGTGAAGTAGACA

96495 GGAAGCCCACTGCGATTTTCCAGATAATTGTGAAACAACCTACGGGCCATTACAAAACCA
TAGGAAATTAGAAGTGAGGAGTAATTTGGAGACTGACAAGCTCTACCTTCATCTAAAGGC

FIGURE 3ZZZ

AGAATTTCTTCTGCAGTCTCCCTAACAAGGAATCGTTATACCTCAGGGATGGGATAGTCA
CTACCACATAAAGTAGTTTCAATTTTCAGACATGCATAACCTTAGAAAGTTCTTCTCTTGAT
TTACAATTAGCCTCATAGTTCTGTTGCTGCCTATTGGAGTTTTACTACGTGTACAGTCAG
[G,A]
CAGGGCTTCCATTTCAGTCACCACCCATTAGTACTGTTGTACTAGTAATTTATGGATGGCG
TCCATTCTTACTGGTCCATGTCCCATTTCTGATTTGTGTTTGTGCCATTTTTAAGTGTTTT
GAATATTAACCCTGGTATCAGATAAACATGGAGTCCTGACTTTTTCCATAATCATGAATA
ACAGTGGAATAGTTACATCAGATTTGTGTGCCACTGTGGTCCCATCTATGAAATAGGGAT
AATAATTGTACCTAGTTCATAAGGTTGTTTGAGGATAGTGTGGAATAAAGTATAAAAAGG

97070 ATAGTGTGGAATAAAGTATAAAAAGGGCTTAGCCTGGTTTCTCAAATATTGCAATAAATG
AACTTAGCATCATGATGCTGTCACAATGGTTCAATGATAATTGAAAACATCGATTCATC
ATTTAGCATCCTCAGCTTATCAGTTTCTCACTATCTAGCTCTTCTTACACTGGACACTTC
CTAATTATTCTTTCAATGTTTTCTGGAAGTTAGTTGAATAATTACTGTGCACCAGATACT
ACACAGTAGTCCCCCTTGATGCATGAGGGATACATTCAAGACCCCCAGTGGATACCTGAA
[T,A]
ACGCAGATATTTCCAAACCCATATATACTATGTTTTTCCCTTTTGTACATACCTATGGT
AAAGTTTGATTCATAGAGTAAGAGATTAACAATACTAATAATAGAACAATTATAACAAT
ATGCAGAGTAAAAGTATGTGAATGCAGTCCCTCTCTCAAAGCATCTGATTGTACCGTACT
TACCTATTTTTGAACCACAGTTGACTGTGGGTAAAAAGGAAAAGTGCAGATAAGGGGGGA
TTACTATACTACGAGTTTTACATGTACCATTAACTAAATCATTACGACTCTATAAAGTA

99913 GGGTGGGGATTGGTTGTTTTGCTTTGTTTTGTTTTCTCTTCTCTTCTTAGGGGAAAAAGA
CATGCAGGGCTTAGTATTCCAACAATTTGAGAAACCAGGGGGCTGGGATTCATTCTTTT
TATGACAAATAGTTACTCGAGCACCTACTTTATTCTTGGGTACTTTTATGAGTCCAGGGG
CTGCTGCATTGAACAATACAGAAAAGAAGTCCTTTCACTTAGAACTTACGTCCTAGTGGG
GGTTGGGGGTTGGGGGTTGAGAGAATGAAGCATTCTTACAAAGAATGTTAAAAGCGAACT
[A,C]
TGGGCAGGAATTGAGGATATGAGTTTTGATGTATAAAGAAAAAGTGACAAGGTCAATAAT
TGGTGGTCTTAGTGTGATAGATATGCCAGTTTGGAAATTGTATTGAATAAATGCTAGTCA
GGGGCTAGGCTGTAGTTATGAAAAGGAGATGATTAAGGAAGTGAGAATAAGGAACTATT
GGTGTGGGACGGATGAAAAGATTATTGGAGGCAAGTCAAGGAACTGAGAGGCCAGGGTGT
TAGATGGAGCATTATGTAGACACTGAAGTCACCAAGAATAATAAATAACAAGTAAGAGG

102375 TTAGATGAGACATTGGACTGTGGACTTTTGAGTTATTGCTGAAATGAGTTAAGACTTTGG
GGAATTCCCAGAACTGAGGGTTCCTCCCCATTGTAGACCATATAGGTAGCTTCCAGACGT
TGCCAAGGCATTTGTAACTGTCATGGTGCTAGTGAGAGTGTCTTTTAGCATGCTCATGT
ATTATAATTAGTGTATAATGAGCAGTGAGGATGACCAGAGATCACTTTTGTCAACCATCTT
GGTTTTGGCCAGCTTCTTCACTGCATCTTATTTCTATCAGTGGGGTCTTTGTGACCTGTA
[C,T]
CTTGCAAAAACAGTCCTGCTGATTACTAAATTCCTATCTCACCTATTCAAGATGGAGTCA
CTCTGGTCTGAATGCCCTGATAAGAGAATCCACAGTGTTCAATTCTCCCCAGTTGATTC
TGAAGCATATCCAGGTTTATTAGCCACTAAGTAAAAATATATTATAGACTACTGTCAATG
AAAGAAACATTTTGTAAAGTTATTTTATATTTTACTTGAGAAGACTGAAAAGGTAA
AGAAGTGATGCTAAAATTTAGAACTAGAAAATCTCAACTTGCTCTAGTAGGAATTTTAAT

102686 CAGTCCTGCTGATTACTAAATTCCTATCTCACCTATTCAAGATGGAGTCACTCTGGTCTG
AATGCCCTGATAAGAGAATCCACAGTGTTCAATTCTCCCCAGTTGATTCTGAAGCATAT
CCAGGTTTATTAGCCACTAAGTAAAAATATATTATAGACTACTGTCAATGAAAGAAACAT
TTTGTAAGTTATTTTATATTTTACTTGAGAAGACTGAAAAGGTAAAGAAGTGATG
CTAAAATTTAGAACTAGAAAATCTCAACTTGCTCTAGTAGGAATTTTAATAGAGCACT
[- ,A]
AGTTTCTTTTCATTTTCTCTCTCCTGGTATGTGAATAAACAACCTTCCATACTGCAATTT
ACCCTGTAGTGAATTAGATGTTACCCTATTATATTTTGGAGAACTATATAGTTAGAATC
TAAGCTTAGATAACTTATTTTATGTTTACAAATCCACTTTCTTTATACATTTTCTTA
AATTTTCTCATATTCTTTCTGAAATTTGTGGTAAAAATACCCCTTTCCCATTTCTATGT
CATGGTTCTTTACGAAGCTTTCTCATCTCTCCATCCCGAGGGAACTATGTCTCATTTAT

102687 AGTCCTGCTGATTACTAAATTCCTATCTCACCTATTCAAGATGGAGTCACTCTGGTCTGA
ATGCCCTGATAAGAGAATCCACAGTGTTCAATTCTCCCCAGTTGATTCTGAAGCATATC
CAGGTTTATTAGCCACTAAGTAAAAATATATTATAGACTACTGTCAATGAAAGAAACATT
TTGTAAGTTATTTTATATTTTACTTGAGAAGACTGAAAAGGTAAAGAAGTGATGC

FIGURE 3AAAA

TAAAATTTAGAACTAGAAAATCTCAACTTGCTCTAGTAGGAATTTTAATAGAGCACACTA
[A, C]
GTTTCTTTTCATTTTCTCTCTCCTGGTATGTGAATAAACAACCTTCCATACTGCAATTTA
CCCTGTAGTGAATTAGATGTTACCCTATTATATTTTGGAGAACTATATAGTTAGAATCT
AAGCTTAGATAACTTATTTTATGTTTACAAATCCACTTTCTCTTATACATTTTCTTAA
ATTTTCTCATATTCTTCTCTGAATTTGTGGTAAAAATACCCCTTCCCATTCTATGTC
ATGGTTCTTACGAAGCTTCTCATCTCTCCATCCCGAGGGAACCTATGTCTCATTATC

102939 CTAGAAAATCTCAACTTGCTCTAGTAGGAATTTTAATAGAGCACACTAAGTTTCTTTTCA
TTTTCTCTCTCCTGGTATGTGAATAAACAACCTTCCATACTGCAATTTACCCTGTAGTGA
ATTAGATGTTACCCTATTATATTTTGGAGAACTATATAGTTAGAATCTAAGCTTAGATA
ACTTATTTTATGTTTACAAATCCACTTTCTCTTATACATTTTCTTAAATTTTCTCAT
ATTCTTCTCTGAATTTGTGGTAAAAATACCCCTTCCCATTCTATGTCATGGTTCTTTA
[C, T]
GAAGCTTCTCATCTCTCCATCCCGAGGGAACCTATGTCTCATTATCTTTAGGTTTTCT
GTATCTTACTACAGTGACTTACCAGAGTAGGTAATATCTGATGAATAAATGAATACAAG
ATTTAATTAAGAAGTAATCACATTAACTAATTGTTCCCTCTCTGATCTCTGTAATATTA
AGTTTCAAAGTAGTTTCTGGGAAAAGTAGTTAACACAATGATGTATGGATTCAATAAATA
AGAAAAATGGTGCTCAGGGATTTAACAGAAAGCTCATAAATGTCAAATCCACAGCAATT

106162 GTTTTATGCGGCTTTGTCTATGCTGGCACATAACTAGTATGTACCAATGTATCTCAGAAA
AGATATCAAGTTTTCTGTTTAAAAATTTTCAAGTTTGAGAAAAATCAGTTAAAGAAAAACAT
AAAAAGATAAAAGTATATGTGTTATCTAGATTTGTGATATAGGGATATGGCAATAATCA
AGATGGTGATAAGTGAATGCTGAATTTCAAGAACTACTGATTACACCCTCTAGAATAAGC
TTTTGCCCGTGATGATTAAATGTGTACGATTTCTTCTAATATTTATTTTGTGTATATT
[G, T]
GGATTTATTAGAATATCAGGGAAGATCTGCAGGGCACAAAACTGTATGTTATAAATGTT
AACAGTGTCAATAAGATCTTTGTTATGTCTTTAGAAGGCTGCTAGATGAGGAGAGTCCTA
GATCTTAAAGGCTCCTTATTCAATTTTACAAAAAGGATTTGCAAGTGGAAGTGAAGTCA
CAAGTACCATCTATTGCTCATTATTTATTTACCTATTTTGAAGCTGATTTTCTGATCC
CACCTGTGCTCAGGGGGCTAAGAAACACTGGTAATGACCTCTAATTTCAAAGCTCACTGT

106378 CTGATTACACCCTCTAGAATAAGCTTTTGCCCGTGATGATTAAATGTGTACGATTTCTTC
CTAATATTTATTTTGTGTATATTGGGATTTATTAGAATATCAGGGAAGATCTGCAGGGC
ACAAAACTGTATGTTATAAATGTTAACAGTGTCAATAAGATCTTTGTTATGTCTTTAGA
AGGCTGCTAGATGAGGAGAGTCTAGATCTTAAAGGCTCCTTATTCAATTTTACAAAA
GGATTTGCAAGTGGAAGTGAAGTCAAGTACCATCTATTGCTCATTATTTATTTACCTA
[T, G]
TTTTGAGCCTGATTTTCTGATCCCACCTGTGCTCAGGGGGCTAAGAAACACTGGTAATG
ACCTCTAATTTCAAAGCTCACTGTCATTACTTATTTATGGACTGTCCAAAAAGATTTTTT
CCACTTTCTTCCAATGCCTTATTTCTTCTTACCTTTACTGCTTCTGACATTTGAAAACA
GGGTCTCTGATTCTCAGAAATGTGAGCAATGGTGAGATTTAGCATGAAGGTGACTTTCTT
TAAATACCAGCTATCCAGAGCTAGGTACAGTGGCAGGCACCTGTAGTATCAGCTACTTG

107310 AGCTTTATCCTCCCTTCAGAGAACAGTGTTTTTATCCCAGGTCTCATCCATGGCTTCACC
CTACTTCTATCATTAAAGGCATCCTATTCTCCTTCAGTCAACTTCTTCTCCTCCTCATTT
TCTTGGTGACTTGGTCATTGCAGATGAGGAAAAACATGAAGAAATCAATTAATCTTCAAG
TTTAACCACCTTTAGAGACTACCCTTGTGAAAGATTAAATTGTGTAACAGTGTGGTTAAGA
ATGTGACTTCTGGAGCCAGATTGCCTTCATTCAAAACACACTTCACTCATTTCCTAGCCC
[C, T]
GAGAGCTTTGACAAGTTGCCTAACTTTGTCTTAGTTTTTCCAGGGATCAAAAGAATACT
TACTTAGAAAAAAATCTTACTTACAAAAGAAATCTTACAGGGATCAAAAGAATACTTAA
TTAGGGTCATTGTAAAGACTGACCTGATACGTGTGAAGTACTTGATGCAATGACTGTCAC
AAAGAAATCACTCAATAAAAGTCTAATATTAGTACAATTCTTCTGAGGCAGTCATGGCTT
TCTTTCCTTGGAAGGAAGCTGGGACTGCTTCATCTTGTTTTATGTTTCTTTGTCTATGC

108663 ACTTTCCATGTGGAGCTCATATTTGAAGACCTCATTTGCCTTCTCCATCTCCATTTATAA
TATTTATCCCTGATGGGCTGTCGCTTGGGCCTCATGTGGAAATTGTAGCCACTGTGAAG
GGTAACCACCTATCTCTCTGGTGCCCCCTATGCGCATCCCTACAAGTGAAGTGTGTATCA
CACCATGCTGCTTACATTTTATGCAACACGATTAGTAACAGGCAGAACTTTTATTCT
TACTGACTCATATTCTTTATATTCATCTGAAAAGATTGACATTTAAAGGAGCCAATTGTA
[C, A]

FIGURE 3BBBB

AATGGGAAATCCACTGTGTGAATATTTCTTGTACATCAGAAATTTGCCTTAAAAATGTTTT
TAACTTAGAGCACATCTGTACTGTTCTCCCCAAATGTCCCATTTACTAGTTCAGAGCAAG
ATGACATTAGGTCTTGGGTGACTCCTGACCCACTATCCTAATGTATATTTTCATTTCTTA
CCAATGTAAGTACCCCATCCAATTCTATCAATACCATAGTGTCTAAAATTCTTGTATTTT
TCTTATTCAGGAAATGCTACAACCAGAGGAACAGTAATGTCTGCCTGACATATCAGAGAA

108876 TCAGTAACAGGCAGAAACTTTTATTCTTACTGACTCATATTCTTTATATTCATCTGAAAA
GATTGACATTTAAAGGAGCCAATTGTACAATGGGAAATCCACTGTGTGAATATTTCTTGT
ACATCAGAAATTTGCCTTAAAAATGTTTTTAACTTAGAGCACATCTGTACTGTTCTCCCCA
AATGTCCCATTTACTAGTTCAGAGCAAGATGACATTAGGTCTTGGGTGACTCCTGACCCA
CTATCCTAATGTATATTTTCATTTCTACCAATGTAAGTACCCCATCCAATTCTATCAAT
[A, T]
CCATAGTGTCTAAAATTCTTGTATTTTTCTTATTCAGGAAATGCTACAACCAGAGGAACA
GTAATGTCTGCCTGACATATCAGAGAAAATGACAATTATGTCATCATCTGTCACTTAGGT
TTCTTAATACCATCCTGTTACAAGGAATAGAGGCAAAAACCTCAGCGTAGGAGGTGAGAAA
AAACTGAGGCTGCCATCTTAACAGCCTTTTCATTGCAGAGTCTCAAAATGTACCAAAAGA
TGAAGTGGACAGTGTCTTTTAAACAACATACAGTGTAGAATACAGTAACTTATCCCCA

110733 CAACTGACGTGTAATGAGTACTCACCAGAGTTGAGATGTTCTGCTAAGCCAGGCCCTCTT
TTAAAAATGTAATCTCAAACCTTTATTAGGTCTCATAATCACCTGGAAGGCTTATTTAAAT
ATTGGCGCCCAACCCACAGAGTTTCTGATTTGTTATAATAGAGTTGAGGGGGGACGGGGC
GTAAGAATCTGCATATCTAACAAGTTCCAGGTGATGCTGATGCTGCTGATCTGGGCACT
ACATTGTAGGAATCAATTGGCTCTAAAACCTTCTCTACCTTCCACTTCTACATGAGCATA
[C, G]
ATAATCTTGTAGCTGAGTCAGCTTGAAATCTATGCAGACTAAAGTAGACAGTTGCATGT
CTGGCTGCTCATCTGAATCACCTGTGGAATTTGTTGTTTTAATACAGATACCTGGCTCT
CCTACAAGTCCCACTGAATTGGAGTTTCAGGAGACCGAAGCCCAGGCACATGTATTTTGC
AAAACCTACACTGAAGTTTCTGATAATGACGGATATCAACAATTAAACGCTTACTTCTTGC
CAAATGCTGTGCTAAGTCTCCTGTAATCATTCTTTCATTTAATATTTCTAATAACCTCTT

111546 AGAAAAAGAAAAACAGAGACAACCTACGCTATGATAAAGTTATTGAAATCAGGCATTGG
TGCCACTCCAGCAAGAATGAGTGGCTACCTTTTTTTTAGATGAGTGCTACCTTTACTTTA
CTGAAATATCATGACATAAAACAAAGCCAAAACACTTTCTGCACAAAATAAAATCCTGGTG
ATAAAGGCAGTGGGATTTATGCTTAGCAGCAGGCTGGATACTATCAGGGAGCAGACAAAG
AAGTTTGATACAGGGCTTGTGGACTGTGGGCCCTGGAAGAATCTGATGACATGCCCTCCA
[A, G]
TTACAGCTGTATCTCATCAAAACCACAGACACATGTAAATGGAAATGCCAACACTTCAAG
ATTCTCTGAAAGCAGTTGACTGTCATGCCAACAGCTAACATAATAGGCTTGTTTGCCTGA
GCTTTTGGCACGGCCCTTTTGTTCCTTTAGCTGTAAATGCAGGGACCCTAGAGCACCTC
ATAGAGTGTGTTCCCTGCCACGTATAAGTATTAGACCCACACTATATTGCTTTGAGTGTT
AAAGCTGAAAGAGACCCTAGAGATCATTTAGTCTACTCCTTCTTTTTTTATGTGAAGGAA

116728 ATTCTCCAGGTTTCCTGGGTTTCCATATTAAGGGCTATTTTCTTGGAACCAAATCAGAAA
ATGTGCATCTGGGTTTCCAGGGTTGGTTTCCATGGTGAGAGAAGTACGGGGAGGCCACCT
TTCTTTCCTCTCCCCAGTGGTTTTAAGTACAATATCTGTATAATGTAAATTTTTTCAAAGT
TGGCATTCTAGTCTTCTCACAAGATAGAAGTGGGAAATTGGAACCTAGGAAAAATTCTG
TGCACCTTCCACTTTTACCCTTGTAATTAACAATGACTAATATTTCTTGAAATCTTTCCC
[T, C]
GGACCAGACAAGGTGTTAAATGTTTTACATTCATTTATTTGTTTATTTTTCTCAGCAGCC
CCATGGGGTGGACTATACTTATCACTACTTTATAATGAGAAAAATCAGAAGCTAAATAAT
TTGGCCGAGATCACATGGCTAATAATTGAAAAGTCTAGATTTAAATCAAGCTCTGTCTGA
TTTCAGAAATCAAGCTTTTTCTTAAAAGGAAGATTAATGAGAAATAAAATATATATTG
TAAATATTTTTATCTGTGGTTTTTAAATGGTTCTAAGTCAACTTAGTTAGGCTAACATAT

118403 GTAACCTAAATTTTCATTTTATAATGTAACAATAATGATAGCATCATATAGTGAACATTT
ATTGTTCCAAGCACTTTGCTAAGTTTTTAAACATTTATTATTAACTCTCAACCCCATAAA
ATAGGTTTTACTATTGTTTAGATTTTACAAGTTAAAAAAAATCAGGCCCAGAGAGAGAG
AAAGTGATGTGTTTATAATCACACAGCCAGTGATTGGCAGAGCATGAAATTAAACCCAAG
TCTAGAAACATGCCGTGCCTGAGACATGGACGATGATGTGACAATGATGAAGGTAGAATG
[G, T]
CTGACATTGCTAAGCTCTTCTAAATGTTAAGCACTGTTGTAAGTGCATGCATTGTCATT
TAACTAAAAACAGTTCTGTGAGGCCACTACTATCGTTACAGTTTTATTATTGCATAATA

FIGURE 3CCCC

TATTAACATATAATTAATGTAGTATATTGTATATATAGTACTATTGTTATAGTATATATT
GTTCTCACTTCAGAAATTAGCAGACTGAAAGGTTAAGAACTTGTTGACTGTGAAGCTGG
AGACAGTCATAGGGGTCTGATGCCAGAGCCCTAACTCTTAACATGCTGCAGTACTGTCCC

118491 AACATTTATTATTAAACTCTCAACCCCATAAAATAGGTTTTACTATTGTTTAGATTTTAC
AAGTTAAAAAAAATCAGGCCCAGAGAGAGAGAAAGTGATGTGTTTATAATCACACAGCC
AGTGATTGGCAGAGCATGAAATTAACCCAAGTCTAGAAACATGCCGTGCCTGAGACATG
GACGATGATGTGACAATGATGAAGGTAGAATGTCTGACATTGCTAAGCTCTTCCTAAATG
TTAAGCACTGTTGTAAGTGCATGCATTGTCAATTAAGTAAACAGTTCTGTGAGGCCA
[C,G]
TACTATCGTTACAGTTTTATTATTGCATAATATATTAACATATAATTAATGTAGTATATT
GTATATATAGTACTATTGTTATAGTATATATTGTTCTCACTTCAGAAATTAGCAGACTGA
AAGTTAAGAACTTGTTGACTGTGAAGCTGGAGACAGTCATAGGGGTCTGATGCCAGAG
CCCTAACTCTTAACATGCTGCAGTACTGTCCCTTTGTTTCAATGTCAATAAACATGCCTCTG
CTAAATAGAAACCCACTTCTCTTAATCAATTTTTATTGTTGAATGTTAGGTTGTTTCT

118888 TCACTTCAGAAATTAGCAGACTGAAAGGTTAAGAACTTGTTGACTGTGAAGCTGGAGAC
AGTCATAGGGGTCTGATGCCAGAGCCCTAACTCTTAACATGCTGCAGTACTGTCCCTTTG
TTCATGTCAATAAACATGCCTCTGCTAAAATAGAAACCCACTTCTCTTAATCAATTTTT
ATTGTTGAATGTTAGGTTGTTTCTCAATTTTGAATACAGATAGAGCATCCCAAATCCAAA
ATGCTCCAAAATCCAAAACATTTTGAACACCAACATGACACTCAAAGGAAATGCTCATTG
[A,G]
AGTATTTTGGATTGATTTGGGGATTTGGGATGGCCAACCAAGTATAGTGCAAATATTTCAA
AATCTGAAAAAAAATTGAAATGCAGAACACTTCTGGTCCCAAGTATTTCAAATAGGGG
ATACTCAACCTGTACATTTAAATTTGTAGTAAAAATCCTGTTAGCAGAATTATGTCCTGG
AACTTAGTTATTTCTTTGTGATAAATTTTCAATCAATAATAAGTGTATTCTCTTACTG
AAAATCACTCAAAGAAAATTTTGTGTTCTCACCACAGAAAACAGTAATGTGGGTAATGTG

125444 GGAGAATCACTTGAGCCCAGGAGGTAGAGGCTGTAGTGAGCCAAGATCATGCCACTGCAC
TCCAGCCTGAGCTACAGAGTGAGACCCCATCATTAACAAAACAAAACAAAACAAAACA
AACAAAACAAAGCAAGTTATGTGCTTCCAAAATACAATGATACCATAGCTGTGGGATAG
AGAATCCCATTCCAACATTTCAAAAGAGAAATGGGAAAGAAGGAAGGGGCATCAGCTCCT
AAACAAGTCCAGAACATATCAAAGCAAATTCTATTATATCTTAAACTCGAGAATAATCT
[-,A,T]
CTTTGAGTTGTTGGTTTGGCCTCTAGATCTACACAGGCATGGGAGCAATCACTCTCATGG
CTGGGGATGGGGAGAGGGGACTTGCTTAAGTGGCTCTCTACAAAGGCACTACCCACATGG
CTCTCTGTGAAGGCTCTGTCTACACAGCTCTGTTGAGTGGTGGTCTGCCCTTCGAAACA
GAGGTGGAGGCAACCCTGCTCCCCAAGCCAGTGCCTCTGGACCTGTAGTGGGAATGGCA
GCCCTGATGATCTGTGAATCGCCCTCATGATCCTTCTTCCTTTTACTTGAAGGATAGCAC

125810 GATGGGGAGAGGGGACTTGCTTAAGTGGCTCTCTACAAAGGCACTACCCACATGGCTCTC
TGTGAAGGCTCTGTCTACACAGCTCTGTTGAGTGGTGGTCTGCCCTTCGAAACAGAGGT
GGAGGCAACCCTGCTCCCCAAGCCAGTGCCTCTGGACCTGTAGTGGGAATGGCAGCCCT
GATGATCTGTGAATCGCCCTCATGATCCTTCTTCCTTTTACTTGAAGGATAGCACATGTT
CACAGCTGGATAGCATTACGGTCCCAGCCTGTAAAATCCAAGAAGTCTGACAGCCTTCT
[T,C]
CATAAATTCAACTGGCAGCATCTGCTAGTATAATCCCATCTTTATTTCTAGCTTCTGTT
GTGATAACTACTTGATTGTTTCACTACACTCTAGTGTGCTCTTCAGAACAGGCTTGCTCA
TTTTCTGCAATATGGATAGAAATCTTCAATTTCTGGTTGCTTTTTGCTTAATTATTTTTT
CTTCAATTCAAACATTCCCTTTAACATTTTACTATAAGCAGACAGAAGGAACCAAGTTAC
TCCTTCAAAGTTTTGCTTAGAAATCTCCTCGGCTGGCCTGGTGCAGTGGCTCATGCCTAT

126092 AAGTCTGACAGCCTTTCTTCATAAATTCAAACCTGGCAGCATCTGCTAGTATAATCCCATC
TTTATTTCTAGCTTCTGTTGTGATAACTACTTGATTGTTTCACTACACTCTAGTGTGCTC
TTCAGAACAGGCTTGCTCATTTTCTGCAATATGGATAGAAATCTTCAATTTCTGGTTGCT
TTTTGCTTAATTATTTTTCTTCAATTCAAACATTCCCTTTAACATTTTACTATAAGCAG
ACAGAAGGAACCAAGTTACTCCTTCAAAGTTTTGCTTAGAAATCTCCTCGGCTGGCCTGG
[T,C]
GCAGTGGCTCATGCCTATAATCCCAGCACTTTAGAAGGCTGAGGCGGGCAGATCACCTGA
GGTCAGTAATTCGAGTCCAACCTGATCAACATGGAGAAACCCCATCTGTACTAAAAATAC
AAAATTAGCCGGGCATGGTGGTGGATGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCA
GGAGAATCACTTGAACCTGGGAGGTAGATGTTGCAGTGAGCTGAGAACACAACATTGTAC

FIGURE 3DDDD

TCCAGCCTGGGCAATGAGAGCGAACTCCATCTCAAAAAAAAAAAAAAAAAAAGAAATC

127506 CATTCTTTCTGCTGCTGTCAATAGCCCTCTTCTTTGGTCCCACAACACACCATCATGATT
TCTGCATTAAAAATGCCATCTCCCAAGTAATTAACCTATTACAGTAAGAACAGTTGTTA
GAAGTTGGGGTTATTTTCATCATGGTCCAATGGCTTTATCTTGCTCAGGAAATCAAAGATG
AGTGTTTCTAAAGCAAAAAAAAAAGGAGGATCTCACAATTGTATCTGTTTCATTCACTCTGC
AGGGTCCATTTTACACCCAAACATTATTAGTTCAATTGTTTGTACTCCTGCCTTTCCTGA
[G,A]
GAAGTCATTGTAGCACTATTTCTTAAGTATATTCAAATTTGGATAAGTTAGTCAAATTGA
TGTGAAAGGACCACCCTTGTAAGCCAAATGTGTAAGTCCTACATAGGGATATTACCTGTT
TTTATCTCCTGATGGGCTTTTTTTTTTTTCAAGTTTCTAAATAAATCCAGTGAACAAGTAG
ATACGCTACTCATGATTATATAGGAAAACAGAGAAGAGAAACATACACTTACTTAAAAGT
AGAAACATATCTGCTCTTTCCCACTTCACCCTTAATTTTTTTCTCCCCAGCCAATTTACT

127878 CACCCTTGTAAGCCAAATGTGTAAGTCCTACATAGGGATATTACCTGTTTTTATCTCCTG
ATGGGCTTTTTTTTTTTTCAAGTTTCTAAATAAATCCAGTGAACAAGTAGATACGCTACTC
ATGATTATATAGGAAAACAGAGAAGAGAAACATACACTTACTTAAAAGTAGAAACATATC
TGCTCTTTCCCACTTCACCCTTAATTTTTTTCTCCCCAGCCAATTTACTCACCTTCTGTG
GCTGTGCTTCTGTGTTAGACCCTTGCTAGCTGCTTCTGGGGTTCAGAGCAATTGTGCTCT
[G,T]
CCCTCATCTTTTATGACACACCTAGCAAAACAGAAGCAGAGGAGCGAGTTGAAACAGACA
AACGACTATCTGTTATTCTTCAAACATGCCTAGGATTGTATTTAACTATCACCTATCTAA
AAGAGGTATTCTCGCCTGCCTGGAAAGAATTTTGCTAAGAAAATTGTTTCTTCTTCCC
ATATTATTTTACCTCTATGCTAGTTCCCTGTGATTTGATATGTCAACTTTGACAAATTCA
TTTTTCTAAAGCACAGATATGACCTTTTTTGTTAAGAAAAGAACTACTGTTGCTCCCC

139738 GCTGTGGTTTGTTTTTAATTCATCTCTAAGTATATTCTGATATCTCATGTGATTTCTCTT
TTTGACTCTTTTTTTAAGAGTTTGTTGTTTAATTTCCACATTTTTGTGAATTTCCAGTT
TTCCTTCTGTTATTGATTCTACCTTCATTCCAATTATTTAGTCTTTTTAAATTTTTTG
ATACCTGTTTTGTGGTTTCCTTCCATGGTTTCCTTAACTCTGAGCATATTCAAGACGGT
TGTTTTAAATCTCACTCTAGAAAGCTCAATGTTTGAGCTTCCTCAGGACAATTTCTATC
[T,C]
GTTGATTTTAAGTCTTTGAATGGCAATATTTTCCTGTTTCTTTGTGTGCCTTGTTGATTTT
TTTTCTGTTGCTATTGAAAACCTCGACATTTAAATATGATAATGTGGTAACTCTGGAAATC
AGGTTCTCCTTTCTTCATGGTTTGCTATTTTTTGATTGTTGAAGGCTGTAGTTATCCAT
TGTTTAGCGACTTCTCAAACAATGTTTGCAAGAGATTGTCTGCTTTGTTGTGTCATCACT
GAAGTTTCTGTTACTTTAGCCTGTGCTCAGCTAATGTTTGACTGAGATTTAACACCAAG

140261 CTTTGTTGTGTCATCACTGAAGTTTCTGTTACTTTAGCCTGTGCTCAGCTAATGTTTTGA
CTGAGATTTAACACCAAGAGCATTTTTAAGTTGTTTTCTTTCTTAATTTAGTGTTTAC
TTGGTTCCAGTAAACCTTTGAGTGCTTTCCGGAGTTTGACAAAGTTGGTTTTGACAGTA
TCTGCTTGTTTTTTGATGTTTCTGTTCAAGATGGGGCTTGGAAGTCTTACATCAGCA
TTTTTCTAGATTCTTCTAATCTTGTACCCAGGTTCAAAAATAAAAGGTACTTTGCTT
[C,T]
AAAACAAAGAATAGTCTTTCTTCCAAGAAGAATCAGAAAGATTATGAACTATTTTTCTGA
TTCTTCACTCTATTTTCTCTCTTTTACATTAAGGCTTTTAAACATGAGTCAATCTTACC
TTATTATATTATTAACATGCTCGTTCATTCAATTCATTCAATTTATTAGATGACTGTAAAA
TTCCTGCTTTGTTAGGAAATATTTCTGACTAGGTGGTTAATGCTATGGTTAGATACACAA
AGTGCTGTGGGAATTGCTCACTGGACCTGAGTGAAGGGTTAGGATAGGCTTTCCAGAGGA

141590 AATGGGAATAGCATTGAATCTATAAATTACTTTAGGCAGTATGGCCATTTTTATGATATT
GATTCTATCTGGGAACCTGGAATGTTTTCCATTTGTTTGTGTCCTCTCTGATTTCTTG
AGCAGTGGTTTGATTTTCTCCTTGAAGAGGTCCTTCATTTCCCTTGTTAGCTATATTCT
AGGTGTTTTATTGTTTTGTAGCAGTTGTGAATGGGAGTTCAATTCATGATTTGTCTCTCTG
CTTGCCTGTTGTTGGTGTATAGGAATGCTAGCAATCTTGCACATTCATTTTATATCCTG
[T,G]
GTTTCAGTATTTTAAAACTTACTTCAGGTGATTCTATGTGTGCAACCATGATTGAGATA
CACTGTTATAGAATCTAGGATGTGATAAACTAGAAGAACATAACTAAAGTTTTGCATTTT
TCGGGTGTCTCAGTTTCTCATTTATAGATGGAGTTGGTATGTGTACCAAGTTCATAGGC
TTGTTCTGAGTAAATTAGTGCATGTAAAGTGCTCCACAGAATGTTAGCTGTTGTGATGCT
TTACTTTCCATTGCACTTCCTGACTCCTAGCCTTTCTTTTCTTGGCTCTTTTTATGCTC

FIGURE 3EEEE

142613 ACAAGTTGAACATGAACCCTTTAAGGGTAATGGGGTCTGAAGTGTCACTAAAAGGTCA
TCTGCAAGTATGTATTTTCATATCTTTGTTTAAATAAAATAGTTACATAGTAGAGGGAAAA
AAAATCCATGTGGATTTTGCATTTCACTCAATTATAACCTTGATTTTTAATGCTAAAAAT
TATTTTTCTTAAAATCTTGGGGTAAAAGTGTTGCTCCAAAGAGCTTTTATCAGATTATGT
TTATCCTGTAGCTGCCTGTCCCCTGTGACCGATACTGGAAACCCTCAGGATTACAAATGC
[C,T]
TCCGTTTGCAAGTAAGAGTGAAATACAGCAGAACTGTGTCTTCTCCTTTGTCTTGTTCCC
CATCTCTCTTCTGTGCTTTGTATTGTTTCCTCTCCTGTACCTAAACAGGCACTCTGAAA
GAAACTCTCCAGTACTGGAGAACTTAGCATATTCTAATTCCTAGGTTAAAAAAAATAA
TAAATGACTGAATGATTTTTTTTTAAAGAATATTTTCCATCAGAAGAAATTTGGAAGTATT
TTGTTGCAGAATTTTAAACATTTGATCTGGGTCTAATTCTGTCTGCGGACTGGTAATCA

142774 GATTTTTAATGCTAAAAATTATTTTTCTTAAATCTTGGGGTAAAAGTGTTGCTCCAAAG
AGCTTTTATCAGATTATGTTTATCCTGTAGCTGCCTGTCCCCTGTGACCGATACTGGAAA
CCCTCAGGATTACAAATGCCTCCGTTTGCAAGTAAGAGTGAAATACAGCAGAACTGTGTC
TTCTCCTTTGTCTTGTTCCCATCTCTCTTCTGTGCTTTGTATTGTTTCCTCTCCTGTCA
CCTAAACAGGCACTCTGAAAGAAAATCTCCAGTACTGGAGAACTTAGCATATTCTAATT
[C,A]
CTAGGTTAAAAAAAATAATAAATGACTGAATGATTTTTTTTTAAAGAATATTTTCCATCA
GAAGAAATTTGGAAGTATTTTGTGTCAGAATTTTAAACATTTGATCTGGGTCTAATTCT
GTCCTGGGACTGGTAATCATCTTTTTTTGAGGCTAAATTTTCTCATTTTGATGAAAAAGT
CATCAATAGATGTTGAAAGCTGGACAGTGCAGTGTCAAAGCAAATGCTTTCATGTCTGC
AAGAAAGTCACAAATAAAGAAGGCTCTGCTGACTAAAAGAGAAAGATACTTAATCAACTC

143288 GTCAAAGCAAATGCTTTGCATGTCTGCAAGAAAGTCACAAATAAAGAAGGCTCTGCTGAC
TAAAAGAGAAAGATACTTAATCAACTCCAGTACCATTGTTGAGGGGAACATTCTATCAGG
ATTCAGTATAGAGAGATATTTTTAGGCTATTACAAAATCCAGGTAGAACCTCCAAGCTA
CATTTACAATAATACTAGCTTTTAGATTAATTGTTGTTTTTAAATATGTATTAGCCTCT
TATACAAATATAAGGAGTTACAAATTATTATTACAATAATCTTGGCTTTCGTGATTGTCC
[G,A]
ATGTATTTACACGTACCGAGAGCTTTATTTCTCCGTATAGTTTCAAGTTACTGTCTCGTG
TCCTTTTCAATTCACCTTGCAAGGACTCCTTTGAGCATTCTTACAGGGAAGTTCTAGTGGT
AATAAACTCCCTCCACTTTTATCTGGAAACATCTTAGTTTCTCTCTCACTTTTCAAGAAC
AGTTCTGCCAGATAGAGGACCCTTGGTTGATAGGTTTTTTTCTTTTAGCACTTTGAATAT
ATCAGCCCACTGCCTTCTGGCCTCCAAAGTTTCTGATAAGAAATCTGCCCCGTCATCTTAT

145610 TTTCCACCCTGACTCTCACAGGCTGTGTGCAAACCTGCTCCGGAACATGTGTGTGCTCAGC
TCCCTCCCATGGGGCTGGAGGATGAGGGATGGGTAGCTGCTGCTGTGCTAAGAGCTTAAG
TTGGTCATAATTAACCTGCGCTTTGCCACCCAAGCCTTCCCTGAAAGTTGCAAGCTTTCAA
TAGACTCCAGAGTTCTAAAATAGTGACATTAGACAGATTCTGCCAGTGCAATCGCTGTCT
AGGAGGGGAGACAGATTCTGGTGCTTCTGTTTTGCCAGCTTCCCGGAATCTTCTTCAC
[A,C]
TAGCATCCATTTTGAAGATACTACTTACTTCTCAATTTGGGGCTATTCATTGAATAGACT
GTCACCAGGTTATTGGCTGTTTGAAGATTCTCATTTGTCTGCTAACTATACCTCTATTTT
TTTTCTACGTTACCTGGAAGACATGTCTTCTTCAAGAGCACCTTGACTCTGTCCAGAAG
GAGTTCATAATTTTCAACAGAGAAAAGTAAGTAATTCCTGGGAGAACAAACAGCCCCAGAA
ATGGTGGCATGTTTCAGCCAGACTTTACTTGCAGAGAAAATATATTTTTAACATTTTAAA

148360 GAAGTGAACAGGCTTGGTGGGGGATTGTTTTACCTCTTGGCTACTCAGAGTACCTAAAC
CTGTCTTACTTATGGAGAGCATGTGTACACCAAGATGGCAGTAAGCTGGCAACTGCGA
AGACCTGACTGATGCCATTTGGGAAGCCAGGCAAGTGAAAATGGACCGAAGAAACAGAG
ATGGCTGTCTTTTATGCAGGGCTTTTCCATAAAGAGGTTACACTGGGGCAACCAAGTATG
TGTAAGAAAGCCAGAGCTAAACTTCAGCTTGGCATTACAGTTTTTCTCTTCACTGAGCTAA
[T,C]
AGGCCAGAGTTTTCGGGCAGAGCTGTGAAATAGTGCTTCTCTAATAGCAACCATATTATT
GTTACATAATTTAAAGCCAGCTCTTTTGTGTTTGTGTTGATTCTTTTCCCTACAGTTCC
CACATCATTTGTCTGTGCTATTCTGTTTTTCTCAAACACTATAAACTTGAAGCAATTGC
CTGACTCGATTTTCAAGAGAAGGGGATG

Chromosome map:

Chromosome 5

FIGURE 3FFFF